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PDF.Support **Short Form**

Diodes Incorporated
3050 E. Hillcrest Drive
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September 1999

Specifications are subject to change without notice.

The data indicated herein describe the type of component and shall not be considered as assured characteristics.

The products listed in this catalogue are not recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury.

The user of products in such applications assumes all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented in this catalog, harmless against all damages.

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About This Short Form

Diodes Incorporated, the customer-oriented manufacturer and supplier of quality discrete semiconductor components, brings you a broad line of devices in a variety of leaded and surface mount packages. These include Schottky Diodes and Rectifiers, Switching Diodes, Super-/Ultra Fast-/Fast-/Standard Recovery Rectifiers, Bridge Rectifiers, Zener Diodes, Transient Voltage Suppressors (TVSs), NPN and PNP Transistors, and MOSFETs.

This *Short Form* gives you easy access to technical information pertaining to our line of discrete semiconductor products. It allows you to locate specific product part numbers and view the associated data at a glance.

NOTE:

- ***Click on any Part Number in the Type Number column to download the datasheet.***

- *To locate information on specific components, refer to the Table of Contents and/or Index.*

Simply click on an entry to jump to your selected topic.

- *The term "New" is used to highlight new products. For an index of these products, refer to the New Product List.*

For each component, the *Short Form* provides:

1. Part numbers
2. Electrical characteristics

To assist you in package selections, Package Outline Dimensions are provided in *Appendix A*.

Part Number Construction

At Diodes Incorporated, dash numbers / letters are appended to the product part numbers (example: ZMM5250B-7), indicating package type and reel size, as shown in the legend below:

| |
|--|
| A = Ammo Pack |
| B = Bulk Packaging |
| T = Tape & Reel |
| 7 = 7-inch Reel |
| 13 = 13-inch Reel |
| No Suffix = Bridge Rectifiers (Tray or Tube Packaging) |

Technical Support

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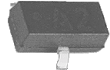
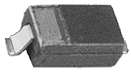


Product Ordering / Sampling

To order products listed in this guide, please contact your local Sales Representatives. Since we are continually developing new products to meet your needs, please call your Sales Representatives to check on specific information that you suspect may have changed.

Diodes Incorporated's Vision

“To be the leading supplier and manufacturer of discrete semiconductor products, recognized for our customer service excellence in the electronics industry worldwide.”

Schottky Diodes

| Type Number | Peak Repetitive Reverse Voltage | Forward Continuous Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | | Capacitance (†) | Pin-out Config. |
|---|---------------------------------|--------------------------------|----------------------|-----|-----------------------------|-----|-----------------|-----------------|
| | V_{RRM} | I_{FM} | $V_F @ I_F$ | | $I_R @ V_R$ | | C_{TOT} | |
| | V | mA | V | mA | μA | V | pF (typ) | |
| 200mW Schottky Diodes / SOT-23  | | | | | | | | |
| BAT54 | 30 | 200 | 0.32 | 1 | 2.0 | 25 | 10 | Fig. 1 |
| BAT54A | 30 | 200 | 0.32 | 1 | 2.0 | 25 | 10 | Fig. 2 |
| BAT54C | 30 | 200 | 0.32 | 1 | 2.0 | 25 | 10 | Fig. 3 |
| BAT54S | 30 | 200 | 0.32 | 1 | 2.0 | 25 | 10 | Fig. 4 |
| BAS40 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5 | Fig. 1 |
| BAS40-04 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5 | Fig. 4 |
| BAS40-05 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5 | Fig. 3 |
| BAS40-06 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5 | Fig. 2 |
| BAS70 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2 | Fig. 1 |
| BAS70-04 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2 | Fig. 4 |
| BAS70-05 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2 | Fig. 3 |
| BAS70-06 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2 | Fig. 2 |
| 200mW Schottky Diodes / SOD-123 <i>NEW</i>  | | | | | | | | |
| BAT42W | 30 | 200 | 0.40 | 10 | 0.5 | 30 | 10 | n/a |
| BAT43W | 30 | 200 | 0.33 | 2 | 0.5 | 30 | 10 | n/a |
| BAT46W | 100 | 150 | 0.45 | 10 | 0.5 | 1.5 | 10 | n/a |
| 1N5711W | 70 | 15 | 1.00 | 15 | 0.2 | 50 | 2.0 | n/a |
| 200mW Schottky Diodes / SOD-323 <i>NEW</i>  | | | | | | | | |
| BAT42WS | 30 | 200 | 0.40 | 10 | 0.5 | 30 | 10 | n/a |
| BAT43WS | 30 | 200 | 0.33 | 2 | 0.5 | 30 | 10 | n/a |
| BAT54WS | 30 | 200 | 0.32 | 1 | 2.0 | 25 | 10 | n/a |
| SD101AWS | 60 | 15 | 1.00 | 15 | 0.2 | 50 | 2.0 | n/a |
| SD101BWS | 50 | 15 | 0.95 | 15 | 0.2 | 40 | 2.1 | n/a |
| SD101CWS | 40 | 15 | 0.90 | 15 | 0.2 | 30 | 2.2 | n/a |
| SD103AWS | 40 | 350 | 0.60 | 200 | 5.0 | 30 | 50 | n/a |
| SD103BWS | 30 | 350 | 0.60 | 200 | 5.0 | 20 | 50 | n/a |
| SD103CWS | 20 | 350 | 0.60 | 200 | 5.0 | 10 | 50 | n/a |
| SD107WS | 30 | 100 | 0.80 | 100 | 1.0 | 25 | 7 | n/a |
| 1N5711WS | 70 | 15 | 1.00 | 15 | 0.2 | 50 | 2.0 | n/a |
| 200mW Schottky Diodes / SOT-363 <i>NEW</i>  | | | | | | | | |
| BAT54DW | 30 | 200 | 0.32 | 1 | 2.0 | 25 | 10 | n/a |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Forward Continuous Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | | Capacitance (†) | Pin-out Config. |
|-------------|---------------------------------|--------------------------------|----------------------|----|-----------------------------|---|-----------------|-----------------|
| | V_{RRM} | I_{FM} | $V_F @ I_F$ | | $I_R @ V_R$ | | C_{TOT} | |
| | V | mA | V | mA | μA | V | pF (typ) | |

200mW Schottky Diodes / SOT-323 NEW



| | | | | | | | | |
|-----------|----|-----|------|-----|-----|----|-----|--------|
| BAT54W | 30 | 200 | 0.32 | 1.0 | 2.0 | 25 | 10 | Fig.1 |
| BAT54AW | 30 | 200 | 0.32 | 1.0 | 2.0 | 25 | 10 | Fig.2 |
| BAT54CW | 30 | 200 | 0.32 | 1.0 | 2.0 | 25 | 10 | Fig.3 |
| BAT54SW | 30 | 200 | 0.32 | 1.0 | 2.0 | 25 | 10 | Fig.4 |
| BAS40W | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5.0 | Fig. 1 |
| BAS40W-04 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5.0 | Fig. 4 |
| BAS40W-05 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5.0 | Fig. 3 |
| BAS40W-06 | 40 | 200 | 1.00 | 40 | 0.2 | 30 | 5.0 | Fig. 2 |
| BAS70W | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2.0 | Fig. 1 |
| BAS70W-04 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2.0 | Fig. 4 |
| BAS70W-05 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2.0 | Fig. 3 |
| BAS70W-06 | 70 | 200 | 1.00 | 15 | 0.1 | 50 | 2.0 | Fig. 2 |

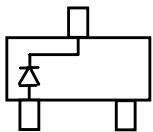


Figure 1, Single

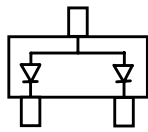


Figure 2, Common Anode

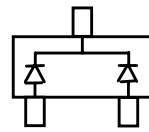


Figure 3, Common Cathode

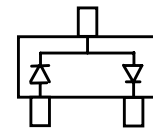


Figure 4, Series

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Forward Continuous Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | | Capacitance (†) |
|-------------|---------------------------------|--------------------------------|----------------------|----|-----------------------------|---|-----------------|
| | V_{RRM} | I_{FM} | $V_F @ I_F$ | | $I_R @ V_R$ | | C_{TOT} |
| | V | mA | V | mA | μA | V | pF (typ) |

400mW Schottky Diodes / mini-MELF

| | | | | | | | |
|----------|-----|-----|------|-----|------|----|-----|
| LLSD101A | 60 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| LLSD101B | 50 | 15 | 0.95 | 15 | 0.20 | 40 | 2.1 |
| LLSD101C | 40 | 15 | 0.90 | 15 | 0.20 | 30 | 2.2 |
| LL5711** | 70 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| LL6263 | 60 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| LL46* | 100 | 150 | 0.45 | 10 | 5.0 | 75 | 6.0 |
| LL42* | 30 | 200 | 0.40 | 10 | 0.50 | 25 | 10 |
| LL43* | 30 | 200 | 0.33 | 2 | 0.50 | 25 | 10 |
| LLSD103A | 40 | 350 | 0.60 | 200 | 5.0 | 30 | 50 |
| LLSD103B | 30 | 350 | 0.60 | 200 | 5.0 | 20 | 50 |
| LLSD103C | 20 | 350 | 0.60 | 200 | 5.0 | 10 | 50 |

* Power dissipation (Pd)=200mW

**Power dissipation (Pd)=250mW

400mW Schottky Diodes / SOD-123 **NEW**

| | | | | | | | |
|---------|----|-----|------|-----|------|----|-----|
| SD101AW | 60 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| SD101BW | 50 | 15 | 0.95 | 15 | 0.20 | 40 | 2.1 |
| SD101CW | 40 | 15 | 0.90 | 15 | 0.20 | 30 | 2.2 |
| SD103AW | 40 | 350 | 0.60 | 200 | 5.0 | 30 | 50 |
| SD103BW | 30 | 350 | 0.60 | 200 | 5.0 | 20 | 50 |
| SD103CW | 20 | 350 | 0.60 | 200 | 5.0 | 10 | 50 |
| 1N6263W | 60 | 50 | 1.00 | 15 | 0.2 | 50 | 2.0 |

400mW Schottky Diodes / DO-35

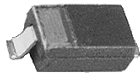


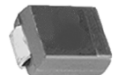
| | | | | | | | |
|----------|-----|-----|------|-----|------|----|-----|
| SD101A | 60 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| SD101B | 50 | 15 | 0.95 | 15 | 0.20 | 40 | 2.1 |
| SD101C | 40 | 15 | 0.90 | 15 | 0.20 | 30 | 2.2 |
| 1N5711** | 70 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| 1N6263 | 60 | 15 | 1.00 | 15 | 0.20 | 50 | 2.0 |
| BAT46* | 100 | 150 | 0.45 | 10 | 5.0 | 75 | 6.0 |
| BAT42* | 30 | 200 | 0.40 | 10 | 0.50 | 25 | 10 |
| BAT43* | 30 | 200 | 0.33 | 2 | 0.50 | 25 | 10 |
| SD103A | 40 | 350 | 0.60 | 200 | 5.0 | 30 | 50 |
| SD103B | 30 | 350 | 0.60 | 200 | 5.0 | 20 | 50 |
| SD103C | 20 | 350 | 0.60 | 200 | 5.0 | 10 | 50 |

* Power dissipation (Pd)=200mW



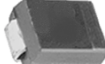

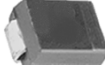
** Power dissipation (Pd)=250mW

(†) Reference product datasheet for specific test conditions.

Schottky Rectifiers

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|--|---------------------------------|---------------------------------------|-----|--|----------------------|-----|-----------------------------|-----|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |
| 0.5A Schottky Rectifiers / SOD-123  NEW | | | | | | | | |
| B0520LW | 20 | .5 | 100 | 5.5 | .385 | 0.5 | .075 | 10 |
| B0520W | 20 | .5 | 95 | 5.5 | .385 | 0.5 | .075 | 10 |
| B0530W | 30 | .5 | 100 | 5.5 | .430 | 0.5 | .02 | 15 |
| B0540W | 40 | .5 | 100 | 5.5 | .510 | 0.5 | .01 | 20 |
| 1.0A Schottky Rectifiers / MELF  | | | | | | | | |
| 1N5817M | 20 | 1.0 | 90 | 25 | 0.45 | 1.0 | 1.0 | 20 |
| 1N5818M | 30 | 1.0 | 90 | 25 | 0.55 | 1.0 | 1.0 | 30 |
| 1N5819M | 40 | 1.0 | 90 | 25 | 0.60 | 1.0 | 1.0 | 40 |
| 1.0A Schottky Rectifiers / SMA  | | | | | | | | |
| B120 | 20 | 1.0 | 130 | 30 | 0.50 | 1.0 | 0.5 | 20 |
| B130 | 30 | 1.0 | 130 | 30 | 0.50 | 1.0 | 0.5 | 30 |
| B140 | 40 | 1.0 | 130 | 30 | 0.50 | 1.0 | 0.5 | 40 |
| B150 | 50 | 1.0 | 130 | 30 | 0.70 | 1.0 | 0.5 | 50 |
| B160 | 60 | 1.0 | 130 | 30 | 0.70 | 1.0 | 0.5 | 60 |
| B170 NEW | 70 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 70 |
| B180 NEW | 80 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 80 |
| B190 NEW | 90 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 90 |
| B1100 NEW | 100 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 100 |
| 1.0A Schottky Rectifiers / SMB  | | | | | | | | |
| B120B | 20 | 1.0 | 130 | 30 | 0.50 | 1.0 | 0.5 | 20 |
| B130B | 30 | 1.0 | 130 | 30 | 0.50 | 1.0 | 0.5 | 30 |
| B140B | 40 | 1.0 | 130 | 30 | 0.50 | 1.0 | 0.5 | 40 |
| B150B | 50 | 1.0 | 130 | 30 | 0.70 | 1.0 | 0.5 | 50 |
| B160B | 60 | 1.0 | 130 | 30 | 0.70 | 1.0 | 0.5 | 60 |
| B170B NEW | 70 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 70 |
| B180B NEW | 80 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 80 |
| B190B NEW | 90 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 90 |
| B1100B NEW | 100 | 1.0 | 125 | 30 | 0.79 | 1.0 | 0.5 | 100 |
| B130LB NEW | 30 | 1.0 | 120 | 40 | 0.395 | 1.0 | 1.0 | 30 |
| B1100LB NEW | 100 | 1.0 | 120 | 50 | 0.75 | 1.0 | 0.5 | 100 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | | |
|---|---------------------------------|---------------------------------------|-----|--|----------------------|-----|-----------------------------|-----|--|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | | |
| | V | A | °C | A | V | A | mA | V | |
| 1.0A Schottky Rectifiers / DO-41  | | | | | | | | | |
| 1N5817 | 20 | 1.0 | 90 | 25 | 0.45 | 1.0 | 1.0 | 20 | |
| 1N5818 | 30 | 1.0 | 90 | 25 | 0.55 | 1.0 | 1.0 | 30 | |
| 1N5819 | 40 | 1.0 | 90 | 25 | 0.60 | 1.0 | 1.0 | 40 | |
| SB120 | 20 | 1.0 | 80 | 40 | 0.50 | 1.0 | 0.5 | 20 | |
| SB130 | 30 | 1.0 | 80 | 40 | 0.50 | 1.0 | 0.5 | 30 | |
| SB140 | 40 | 1.0 | 80 | 40 | 0.50 | 1.0 | 0.5 | 40 | |
| SB150 | 50 | 1.0 | 80 | 40 | 0.70 | 1.0 | 0.5 | 50 | |
| SB160 | 60 | 1.0 | 80 | 40 | 0.70 | 1.0 | 0.5 | 60 | |
| SB170 ^{NEW} | 70 | 1.0 | 80 | 40 | 0.80 | 1.0 | 0.5 | 70 | |
| SB180 ^{NEW} | 80 | 1.0 | 80 | 40 | 0.80 | 1.0 | 0.5 | 80 | |
| SB190 ^{NEW} | 90 | 1.0 | 80 | 40 | 0.80 | 1.0 | 0.5 | 90 | |
| SB1100 ^{NEW} | 100 | 1.0 | 80 | 40 | 0.80 | 1.0 | 0.5 | 100 | |
| 2.0A Schottky Rectifiers / SMA  | | | | | | | | | |
| B220A | 20 | 2.0 | 100 | 50 | 0.50 | 2.0 | 0.5 | 20 | |
| B230A | 30 | 2.0 | 100 | 50 | 0.50 | 2.0 | 0.5 | 30 | |
| B240A | 40 | 2.0 | 100 | 50 | 0.50 | 2.0 | 0.5 | 40 | |
| B250A | 50 | 2.0 | 100 | 50 | 0.70 | 2.0 | 0.5 | 50 | |
| B260A | 60 | 2.0 | 100 | 50 | 0.70 | 2.0 | 0.5 | 60 | |
| 2.0A Schottky Rectifiers / SMB  | | | | | | | | | |
| B220 | 20 | 2.0 | 100 | 50 | 0.50 | 2.0 | 0.5 | 20 | |
| B230 | 30 | 2.0 | 100 | 50 | 0.50 | 2.0 | 0.5 | 30 | |
| B240 | 40 | 2.0 | 100 | 50 | 0.50 | 2.0 | 0.5 | 40 | |
| B250 | 50 | 2.0 | 100 | 50 | 0.70 | 2.0 | 0.5 | 50 | |
| B260 | 60 | 2.0 | 100 | 50 | 0.70 | 2.0 | 0.5 | 60 | |
| B270 ^{NEW} | 70 | 2.0 | 125 | 50 | 0.79 | 2.0 | 0.5 | 70 | |
| B280 ^{NEW} | 80 | 2.0 | 125 | 50 | 0.79 | 2.0 | 0.5 | 80 | |
| B290 ^{NEW} | 90 | 2.0 | 125 | 50 | 0.79 | 2.0 | 0.5 | 90 | |
| B2100 ^{NEW} | 100 | 2.0 | 125 | 50 | 0.79 | 2.0 | 0.5 | 100 | |
| 3.0A Schottky Rectifiers / SMA  | | | | | | | | | |
| B320A | 20 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 20 | |
| B330A | 30 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 30 | |
| B340A | 40 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 40 | |
| B350A | 50 | 3.0 | 110 | 100 | 0.70 | 3.0 | 0.5 | 50 | |
| B360A | 60 | 3.0 | 110 | 100 | 0.70 | 3.0 | 0.5 | 60 | |
| 3.0A Schottky Rectifiers / SMB  | | | | | | | | | |
| B320B | 20 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 20 | |
| B330B | 30 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 30 | |
| B340B | 40 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 40 | |
| B350B | 50 | 3.0 | 110 | 100 | 0.70 | 3.0 | 0.5 | 50 | |
| B360B | 60 | 3.0 | 110 | 100 | 0.70 | 3.0 | 0.5 | 60 | |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|-------------|---------------------------------|---------------------------------------|----|--|----------------------|---|-----------------------------|---|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |

3.0A Schottky Rectifiers / SMC



| | | | | | | | | |
|----------------------|-----|-----|-----|-----|------|-----|-----|-----|
| B320 | 20 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 20 |
| B330 | 30 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 30 |
| B340 | 40 | 3.0 | 110 | 100 | 0.50 | 3.0 | 0.5 | 40 |
| B350 | 50 | 3.0 | 110 | 100 | 0.70 | 3.0 | 0.5 | 50 |
| B360 | 60 | 3.0 | 110 | 100 | 0.70 | 3.0 | 0.5 | 60 |
| B370 ^{NEW} | 70 | 3.0 | 125 | 100 | 0.79 | 3.0 | 0.5 | 70 |
| B380 ^{NEW} | 80 | 3.0 | 125 | 100 | 0.79 | 3.0 | 0.5 | 80 |
| B390 ^{NEW} | 90 | 3.0 | 125 | 100 | 0.79 | 3.0 | 0.5 | 90 |
| B3100 ^{NEW} | 100 | 3.0 | 125 | 100 | 0.79 | 3.0 | 0.5 | 100 |

3.0A Schottky Rectifiers / DO-201AD



| | | | | | | | | |
|-----------------------|-----|-----|-----|----|-------|-----|-----|-----|
| 1N5820 | 20 | 3.0 | 90* | 80 | 0.475 | 3.0 | 2.0 | 20 |
| 1N5821 | 30 | 3.0 | 90* | 80 | 0.500 | 3.0 | 2.0 | 30 |
| 1N5822 | 40 | 3.0 | 90* | 80 | 0.525 | 3.0 | 2.0 | 40 |
| SB320 | 20 | 3.0 | 80* | 80 | 0.50 | 3.0 | 0.5 | 20 |
| SB330 | 30 | 3.0 | 80* | 80 | 0.50 | 3.0 | 0.5 | 30 |
| SB340 | 40 | 3.0 | 80* | 80 | 0.50 | 3.0 | 0.5 | 40 |
| SB350 | 50 | 3.0 | 80* | 80 | 0.74 | 3.0 | 0.5 | 50 |
| SB360 | 60 | 3.0 | 80* | 80 | 0.74 | 3.0 | 0.5 | 60 |
| SB370 ^{NEW} | 70 | 3.0 | 80* | 80 | 0.80 | 3.0 | 0.5 | 70 |
| SB380 ^{NEW} | 80 | 3.0 | 80* | 80 | 0.80 | 3.0 | 0.5 | 80 |
| SB390 ^{NEW} | 90 | 3.0 | 80* | 80 | 0.80 | 3.0 | 0.5 | 90 |
| SB3100 ^{NEW} | 100 | 3.0 | 80* | 80 | 0.80 | 3.0 | 0.5 | 100 |

* TL, Lead Temperature at a distance of 9.5mm from case.

5.0A Schottky Rectifiers / SMC



| | | | | | | | | |
|-------|----|-----|-----|-----|------|-----|-----|----|
| B520C | 20 | 5.0 | 110 | 175 | 0.55 | 5.0 | 0.5 | 20 |
| B530C | 30 | 5.0 | 110 | 175 | 0.55 | 5.0 | 0.5 | 30 |
| B540C | 40 | 5.0 | 110 | 175 | 0.55 | 5.0 | 0.5 | 40 |
| B550C | 50 | 5.0 | 110 | 175 | 0.70 | 5.0 | 0.5 | 50 |
| B560C | 60 | 5.0 | 110 | 175 | 0.70 | 5.0 | 0.5 | 60 |

5.0A Schottky Rectifiers / DO-201AD



| | | | | | | | | |
|-----------------------|-----|-----|----|-----|------|-----|-----|-----|
| SB520 | 20 | 5.0 | 80 | 150 | 0.55 | 5.0 | 0.5 | 20 |
| SB530 | 30 | 5.0 | 80 | 150 | 0.55 | 5.0 | 0.5 | 30 |
| SB540 | 40 | 5.0 | 80 | 150 | 0.55 | 5.0 | 0.5 | 40 |
| SB550 | 50 | 5.0 | 80 | 150 | 0.70 | 5.0 | 0.5 | 50 |
| SB560 | 60 | 5.0 | 80 | 150 | 0.70 | 5.0 | 0.5 | 60 |
| SB570 ^{NEW} | 70 | 5.0 | 80 | 150 | 0.80 | 5.0 | 0.5 | 70 |
| SB580 ^{NEW} | 80 | 5.0 | 80 | 150 | 0.80 | 5.0 | 0.5 | 80 |
| SB590 ^{NEW} | 90 | 5.0 | 80 | 150 | 0.80 | 5.0 | 0.5 | 90 |
| SB5100 ^{NEW} | 100 | 5.0 | 80 | 150 | 0.80 | 5.0 | 0.5 | 100 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|-------------|---------------------------------|---------------------------------------|----|--|----------------------|---|-----------------------------|---|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |

5.0A Schottky Rectifiers / TO-220AC



| | | | | | | | | |
|--------|----|-----|----|-----|------|-----|-----|----|
| SBL530 | 30 | 5.0 | 95 | 175 | 0.55 | 5.0 | 0.5 | 30 |
| SBL535 | 35 | 5.0 | 95 | 175 | 0.55 | 5.0 | 0.5 | 35 |
| SBL540 | 40 | 5.0 | 95 | 175 | 0.55 | 5.0 | 0.5 | 40 |
| SBL545 | 45 | 5.0 | 95 | 175 | 0.55 | 5.0 | 0.5 | 45 |
| SBL550 | 50 | 5.0 | 95 | 175 | 0.70 | 5.0 | 0.5 | 50 |
| SBL560 | 60 | 5.0 | 95 | 175 | 0.70 | 5.0 | 0.5 | 60 |

7.5A Schottky Rectifiers / TO-220AC



| | | | | | | | | |
|--------|----|-----|-----|-----|------|-----|-----|----|
| MBR730 | 30 | 7.5 | 125 | 150 | 0.55 | 7.5 | 1.0 | 30 |
| MBR735 | 35 | 7.5 | 125 | 150 | 0.55 | 7.5 | 1.0 | 35 |
| MBR740 | 40 | 7.5 | 125 | 150 | 0.55 | 7.5 | 1.0 | 40 |
| MBR745 | 45 | 7.5 | 125 | 150 | 0.55 | 7.5 | 1.0 | 45 |
| MBR750 | 50 | 7.5 | 125 | 150 | 0.70 | 7.5 | 1.0 | 50 |
| MBR760 | 60 | 7.5 | 125 | 150 | 0.70 | 7.5 | 1.0 | 60 |

8.0A Schottky Rectifiers / DO-201AD



| | | | | | | | | |
|-------|----|-----|-----|-----|------|-----|-----|----|
| SD830 | 30 | 8.0 | 90* | 175 | 0.55 | 8.0 | 1.0 | 30 |
| SD840 | 40 | 8.0 | 90* | 175 | 0.55 | 8.0 | 1.0 | 40 |
| SD845 | 45 | 8.0 | 90* | 175 | 0.55 | 8.0 | 1.0 | 45 |




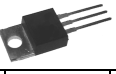
* TL, Lead Temperature at a distance of 9.5mm from case.

8.0A Schottky Rectifiers / TO-220AC








| | | | | | | | | |
|---------|-----|-----|-----|-----|------|-----|-----|-----|
| SBL830 | 30 | 8.0 | 95 | 200 | 0.55 | 8.0 | 0.5 | 30 |
| SBL835 | 35 | 8.0 | 95 | 200 | 0.55 | 8.0 | 0.5 | 35 |
| SBL840 | 40 | 8.0 | 95 | 200 | 0.55 | 8.0 | 0.5 | 40 |
| SBL845 | 45 | 8.0 | 95 | 200 | 0.55 | 8.0 | 0.5 | 45 |
| SBL850 | 50 | 8.0 | 95 | 200 | 0.70 | 8.0 | 0.5 | 50 |
| SBL860 | 60 | 8.0 | 95 | 200 | 0.70 | 8.0 | 0.5 | 60 |
| SBL870 | 70 | 8.0 | 110 | 175 | 0.85 | 8.0 | 0.1 | 70 |
| SBL880 | 80 | 8.0 | 110 | 175 | 0.85 | 8.0 | 0.1 | 80 |
| SBL890 | 90 | 8.0 | 110 | 175 | 0.85 | 8.0 | 0.1 | 90 |
| SBL8100 | 100 | 8.0 | 110 | 175 | 0.85 | 8.0 | 0.1 | 100 |

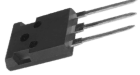
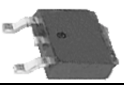

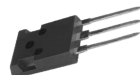

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|--|---------------------------------|---------------------------------------|-----|--|----------------------|-----|-----------------------------|-----|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |
| 9.0A Schottky Rectifiers / DO-201AD  NEW | | | | | | | | |
| SD930 | 30 | 9.0 | 120 | 340 | 0.48 | 9.0 | 0.8 | 30 |
| SD940 | 40 | 9.0 | 120 | 340 | 0.48 | 9.0 | 0.8 | 40 |
| SD945 | 45 | 9.0 | 120 | 340 | 0.48 | 9.0 | 0.8 | 45 |
| 10A Schottky Rectifiers / D²PAK  NEW | | | | | | | | |
| SBG1025L | 30 | 10 | 125 | 100 | 0.45 | 10 | 5.0 | 30 |
| SBG1030CT | 30 | 10 | 95 | 125 | 0.55 | 5.0 | 1.0 | 30 |
| SBG1035CT | 35 | 10 | 95 | 125 | 0.55 | 5.0 | 1.0 | 35 |
| SBG1040CT | 40 | 10 | 95 | 125 | 0.55 | 5.0 | 1.0 | 40 |
| SBG1045CT | 45 | 10 | 95 | 125 | 0.55 | 5.0 | 1.0 | 45 |
| 10A Schottky Rectifiers / TO-220AC  | | | | | | | | |
| MBR1030 | 30 | 10 | 125 | 150 | 0.84 | 10 | 0.1 | 30 |
| MBR1035 | 35 | 10 | 125 | 150 | 0.84 | 10 | 0.1 | 35 |
| MBR1040 | 40 | 10 | 125 | 150 | 0.84 | 10 | 0.1 | 40 |
| MBR1045 | 45 | 10 | 125 | 150 | 0.84 | 10 | 0.1 | 45 |
| MBR1050 | 50 | 10 | 125 | 150 | 0.95 | 10 | 0.1 | 50 |
| MBR1060 | 60 | 10 | 125 | 150 | 0.95 | 10 | 0.1 | 60 |
| SBL1030 | 30 | 10 | 95 | 250 | 0.60 | 10 | 1.0 | 30 |
| SBL1035 | 35 | 10 | 95 | 250 | 0.60 | 10 | 1.0 | 35 |
| SBL1040 | 40 | 10 | 95 | 250 | 0.60 | 10 | 1.0 | 40 |
| SBL1045 | 45 | 10 | 95 | 250 | 0.60 | 10 | 1.0 | 45 |
| SBL1050 | 50 | 10 | 95 | 250 | 0.75 | 10 | 1.0 | 50 |
| SBL1060 | 60 | 10 | 95 | 250 | 0.75 | 10 | 1.0 | 60 |
| 10A Schottky Rectifiers (DUAL) / TO-220AB  | | | | | | | | |
| SBL1030CT | 30 | 10 | 95 | 175 | 0.55 | 10 | 0.5 | 30 |
| SBL1035CT | 35 | 10 | 95 | 175 | 0.55 | 10 | 0.5 | 35 |
| SBL1040CT | 40 | 10 | 95 | 175 | 0.55 | 10 | 0.5 | 40 |
| SBL1045CT | 45 | 10 | 95 | 175 | 0.55 | 10 | 0.5 | 45 |
| SBL1050CT | 50 | 10 | 95 | 175 | 0.70 | 10 | 0.5 | 50 |
| SBL1060CT | 60 | 10 | 95 | 175 | 0.70 | 10 | 0.5 | 60 |
| MBR1030CT ^{NEW} | 30 | 10 | 105 | 125 | 0.84 | 10 | 0.1 | 30 |
| MBR1035CT ^{NEW} | 35 | 10 | 105 | 125 | 0.84 | 10 | 0.1 | 35 |
| MBR1040CT ^{NEW} | 40 | 10 | 105 | 125 | 0.84 | 10 | 0.1 | 40 |
| MBR1045CT ^{NEW} | 45 | 10 | 105 | 125 | 0.84 | 10 | 0.1 | 45 |
| MBR1050CT ^{NEW} | 50 | 10 | 105 | 125 | 0.95 | 10 | 0.1 | 50 |
| MBR1060CT ^{NEW} | 60 | 10 | 105 | 125 | 0.95 | 10 | 0.1 | 60 |
| MBR1070CT ^{NEW} | 70 | 10 | 100 | 120 | 0.95 | 10 | 0.1 | 70 |
| MBR1080CT ^{NEW} | 80 | 10 | 100 | 120 | 0.95 | 10 | 0.1 | 80 |
| MBR1090CT ^{NEW} | 90 | 10 | 100 | 120 | 0.95 | 10 | 0.1 | 90 |
| MBR10100CT ^{NEW} | 100 | 10 | 100 | 120 | 0.95 | 10 | 0.1 | 100 |


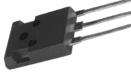
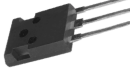
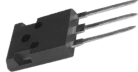
(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|---|---------------------------------|---------------------------------------|-----|--|----------------------|-----|-----------------------------|----|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |
| 15A Schottky Rectifiers (DUAL) / D²PAK  | | | | | | | | |
| MBRB1530CT | 30 | 15 | 105 | 150 | 0.70 | 7.5 | 0.1 | 30 |
| MBRB1535CT | 35 | 15 | 105 | 150 | 0.70 | 7.5 | 0.1 | 35 |
| MBRB1540CT | 40 | 15 | 105 | 150 | 0.70 | 7.5 | 0.1 | 40 |
| MBRB1545CT | 45 | 15 | 105 | 150 | 0.70 | 7.5 | 0.1 | 45 |
| 15A Schottky Rectifiers (DUAL) / TO-220AB  | | | | | | | | |
| MBR1530CT | 30 | 15 | 125 | 150 | 0.84 | 15 | 0.1 | 30 |
| MBR1535CT | 35 | 15 | 125 | 150 | 0.84 | 15 | 0.1 | 35 |
| MBR1540CT | 40 | 15 | 125 | 150 | 0.84 | 15 | 0.1 | 40 |
| MBR1545CT | 45 | 15 | 125 | 150 | 0.84 | 15 | 0.1 | 45 |
| MBR1550CT | 50 | 15 | 125 | 150 | 0.90 | 15 | 1.0 | 50 |
| MBR1560CT | 60 | 15 | 125 | 150 | 0.90 | 15 | 1.0 | 60 |
| 16A Schottky Rectifiers (DUAL) / D²PAK <i>NEW</i>  | | | | | | | | |
| SBG1630CT | 30 | 16 | 95 | 175 | 0.55 | 8.0 | 1.0 | 30 |
| SBG1635CT | 35 | 16 | 95 | 175 | 0.55 | 8.0 | 1.0 | 35 |
| SBG1640CT | 40 | 16 | 95 | 175 | 0.55 | 8.0 | 1.0 | 40 |
| SBG1645CT | 45 | 16 | 95 | 175 | 0.55 | 8.0 | 1.0 | 45 |
| 16A Schottky Rectifiers / TO-220AC  | | | | | | | | |
| MBR1630 | 30 | 16 | 125 | 150 | 0.63 | 16 | 0.2 | 30 |
| MBR1635 | 35 | 16 | 125 | 150 | 0.63 | 16 | 0.2 | 35 |
| MBR1640 | 40 | 16 | 125 | 150 | 0.63 | 16 | 0.2 | 40 |
| MBR1645 | 45 | 16 | 125 | 150 | 0.63 | 16 | 0.2 | 45 |
| MBR1650 | 50 | 16 | 125 | 150 | 0.75 | 16 | 1.0 | 50 |
| MBR1660 | 60 | 16 | 125 | 150 | 0.75 | 16 | 1.0 | 60 |
| SBL1630 | 30 | 16 | 95 | 275 | 0.57 | 16 | 1.0 | 30 |
| SBL1635 | 35 | 16 | 95 | 275 | 0.57 | 16 | 1.0 | 35 |
| SBL1640 | 40 | 16 | 95 | 275 | 0.57 | 16 | 1.0 | 40 |
| SBL1645 | 45 | 16 | 95 | 275 | 0.57 | 16 | 1.0 | 45 |
| SBL1650 | 50 | 16 | 95 | 275 | 0.75 | 16 | 1.0 | 50 |
| SBL1660 | 60 | 16 | 95 | 275 | 0.75 | 16 | 1.0 | 60 |
| 16A Schottky Rectifiers / TO-220AB  | | | | | | | | |
| SBL1630CT | 30 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 30 |
| SBL1635CT | 35 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 35 |
| SBL1640CT | 40 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 40 |
| SBL1645CT | 45 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 45 |
| SBL1650CT | 50 | 16 | 95 | 250 | 0.70 | 8.0 | 0.5 | 50 |
| SBL1660CT | 60 | 16 | 95 | 250 | 0.70 | 8.0 | 0.5 | 60 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|---|---------------------------------|---------------------------------------|-----|--|----------------------|-----|-----------------------------|-----|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |
| 16A Schottky Rectifiers (DUAL) / TO-3P  | | | | | | | | |
| SBL1630PT | 30 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 30 |
| SBL1635PT | 35 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 35 |
| SBL1640PT | 40 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 40 |
| SBL1645PT | 45 | 16 | 95 | 250 | 0.55 | 8.0 | 0.5 | 45 |
| SBL1650PT | 50 | 16 | 95 | 250 | 0.70 | 8.0 | 0.5 | 50 |
| SBL1660PT | 60 | 16 | 95 | 250 | 0.70 | 8.0 | 0.5 | 60 |
| 20A Schottky Rectifiers (DUAL) / D²PAK <i>NEW</i>  | | | | | | | | |
| SBG2030CT | 30 | 20 | 105 | 225 | 0.55 | 10 | 1.0 | 30 |
| SBG2035CT | 35 | 20 | 105 | 225 | 0.55 | 10 | 1.0 | 35 |
| SBG2040CT | 40 | 20 | 105 | 225 | 0.55 | 10 | 1.0 | 40 |
| SBG2045CT | 45 | 20 | 105 | 225 | 0.55 | 10 | 1.0 | 45 |
| 20A Schottky Rectifiers (DUAL) / TO-220AB  | | | | | | | | |
| MBR2030CT | 30 | 20 | 125 | 150 | 0.84 | 10 | 0.1 | 30 |
| MBR2035CT | 35 | 20 | 125 | 150 | 0.84 | 10 | 0.1 | 35 |
| MBR2040CT | 40 | 20 | 125 | 150 | 0.84 | 10 | 0.1 | 40 |
| MBR2045CT | 45 | 20 | 125 | 150 | 0.84 | 10 | 0.1 | 45 |
| MBR2050CT | 50 | 20 | 125 | 150 | 0.95 | 10 | 0.1 | 50 |
| MBR2060CT | 60 | 20 | 125 | 150 | 0.95 | 10 | 0.1 | 60 |
| MBR2070CT <i>NEW</i> | 70 | 20 | 125 | 150 | 0.95 | 20 | 0.15 | 70 |
| MBR2080CT <i>NEW</i> | 80 | 20 | 125 | 150 | 0.95 | 20 | 0.15 | 80 |
| MBR2090CT <i>NEW</i> | 90 | 20 | 125 | 150 | 0.95 | 20 | 0.15 | 90 |
| MBR20100CT <i>NEW</i> | 100 | 20 | 125 | 150 | 0.95 | 20 | 0.15 | 100 |
| SBL2030CT | 30 | 20 | 95 | 250 | 0.55 | 10 | 1.0 | 30 |
| SBL2035CT | 35 | 20 | 95 | 250 | 0.55 | 10 | 1.0 | 35 |
| SBL2040CT | 40 | 20 | 95 | 250 | 0.55 | 10 | 1.0 | 40 |
| SBL2045CT | 45 | 20 | 95 | 250 | 0.55 | 10 | 1.0 | 45 |
| SBL2050CT | 50 | 20 | 95 | 250 | 0.75 | 10 | 1.0 | 50 |
| SBL2060CT | 60 | 20 | 95 | 250 | 0.75 | 10 | 1.0 | 60 |
| 20A Schottky Rectifiers (DUAL) / TO-3P  | | | | | | | | |
| SBL2030PT | 30 | 20 | 100 | 250 | 0.55 | 10 | 1.0 | 30 |
| SBL2035PT | 35 | 20 | 100 | 250 | 0.55 | 10 | 1.0 | 35 |
| SBL2040PT | 40 | 20 | 100 | 250 | 0.55 | 10 | 1.0 | 40 |
| SBL2045PT | 45 | 20 | 100 | 250 | 0.55 | 10 | 1.0 | 45 |
| SBL2050PT | 50 | 20 | 100 | 250 | 0.75 | 10 | 1.0 | 50 |
| SBL2060PT | 60 | 20 | 100 | 250 | 0.75 | 10 | 1.0 | 60 |
| 30A Schottky Rectifiers (DUAL) / D²PAK <i>NEW</i>  | | | | | | | | |
| SBG3030CT | 30 | 30 | 100 | 250 | 0.55 | 15 | 1.0 | 30 |
| SBG3040CT | 40 | 30 | 100 | 250 | 0.55 | 15 | 1.0 | 40 |
| SBG3050CT | 50 | 30 | 100 | 250 | 0.70 | 15 | 1.0 | 50 |
| SBG3060CT | 60 | 30 | 100 | 250 | 0.70 | 15 | 1.0 | 60 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Maximum Average Rectified Current (†) | | Maximum Peak Forward Surge Current (†) | Forward Voltage Drop | | Maximum Reverse Current (†) | |
|---|---------------------------------|---------------------------------------|-----|--|----------------------|----|-----------------------------|----|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | mA | V |
| 30A Schottky Rectifiers (DUAL) / TO-220AB  NEW | | | | | | | | |
| MBR2535CT | 35 | 30 | 130 | 150 | 0.82 | 30 | 1.0 | 35 |
| MBR2545CT | 45 | 30 | 130 | 150 | 0.82 | 30 | 1.0 | 45 |
| MBR2550CT | 50 | 30 | 130 | 150 | 0.75 | 15 | 1.0 | 50 |
| MBR2560CT | 60 | 30 | 130 | 150 | 0.75 | 15 | 1.0 | 60 |
| SBL3030CT | 30 | 30 | 100 | 250 | 0.55 | 15 | 1.0 | 30 |
| SBL3040CT | 40 | 30 | 100 | 250 | 0.55 | 15 | 1.0 | 40 |
| SBL3045CT | 45 | 30 | 100 | 250 | 0.55 | 15 | 1.0 | 45 |
| SBL3050CT | 50 | 30 | 100 | 250 | 0.70 | 15 | 1.0 | 50 |
| SBL3060CT | 60 | 30 | 100 | 250 | 0.70 | 15 | 1.0 | 60 |
| 30A Schottky Rectifiers (DUAL) / TO-3P  | | | | | | | | |
| MBR3030PT | 30 | 30 | 125 | 200 | 0.76 | 15 | 1.0 | 30 |
| MBR3035PT | 35 | 30 | 125 | 200 | 0.76 | 15 | 1.0 | 35 |
| MBR3040PT | 40 | 30 | 125 | 200 | 0.76 | 15 | 1.0 | 40 |
| MBR3045PT | 45 | 30 | 125 | 200 | 0.76 | 15 | 1.0 | 45 |
| MBR3050PT | 50 | 30 | 125 | 200 | 0.80 | 15 | 5.0 | 50 |
| MBR3060PT | 60 | 30 | 125 | 200 | 0.80 | 15 | 5.0 | 60 |
| SBL3030PT | 30 | 30 | 95 | 275 | 0.55 | 15 | 1.0 | 30 |
| SBL3035PT | 35 | 30 | 95 | 275 | 0.55 | 15 | 1.0 | 35 |
| SBL3040PT | 40 | 30 | 95 | 275 | 0.55 | 15 | 1.0 | 40 |
| SBL3045PT | 45 | 30 | 95 | 275 | 0.55 | 15 | 1.0 | 45 |
| SBL3050PT | 50 | 30 | 95 | 275 | 0.70 | 15 | 1.0 | 50 |
| SBL3060PT | 60 | 30 | 95 | 275 | 0.70 | 15 | 1.0 | 60 |
| 40A Schottky Rectifiers (DUAL) / TO-3P  | | | | | | | | |
| MBR4030PT | 30 | 40 | 125 | 400 | 0.70 | 20 | 1.0 | 30 |
| MBR4035PT | 35 | 40 | 125 | 400 | 0.70 | 20 | 1.0 | 35 |
| MBR4040PT | 40 | 40 | 125 | 400 | 0.70 | 20 | 1.0 | 40 |
| MBR4045PT | 45 | 40 | 125 | 400 | 0.70 | 20 | 1.0 | 45 |
| MBR4050PT | 50 | 40 | 125 | 400 | 0.80 | 20 | 1.0 | 50 |
| MBR4060PT | 60 | 40 | 125 | 400 | 0.80 | 20 | 1.0 | 60 |
| 60A Schottky Rectifiers (DUAL) / TO-3P  NEW | | | | | | | | |
| MBR6030PT | 30 | 60 | 125 | 500 | 0.75 | 60 | 1.0 | 30 |
| MBR6035PT | 35 | 60 | 125 | 500 | 0.75 | 60 | 1.0 | 35 |
| MBR6040PT | 40 | 60 | 125 | 500 | 0.75 | 60 | 1.0 | 40 |
| MBR6045PT | 45 | 60 | 125 | 500 | 0.75 | 60 | 1.0 | 45 |
| SBL6030PT | 30 | 60 | 100 | 500 | 0.55 | 30 | 20 | 30 |
| SBL6040PT | 40 | 60 | 100 | 500 | 0.55 | 30 | 20 | 40 |
| SBL6050PT | 50 | 60 | 100 | 500 | 0.70 | 30 | 20 | 50 |
| SBL6060PT | 60 | 60 | 100 | 500 | 0.70 | 30 | 20 | 60 |

(†) Reference product datasheet for specific test conditions.

Switching Diodes

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (†) | Max. Average Rectified Current (†) | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current | | Pin-out Config. |
|-------------|---------------------------------|---------------------------|------------------------------------|-------------------------------------|----------------------|----|----------------------|---|-----------------|
| | V_{RRM} | t_{rr} | I_O | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | | |
| | V | ns | mA | A | V | mA | μA | V | |

200mW Switching Diodes / SOT-323

NEW

| | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| BAS16W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 1.0 | 75 | Fig.1 |
| BAS19W | 120 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 100 | Fig.1 |
| BAS20W | 200 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 150 | Fig.1 |
| BAS21W | 250 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 200 | Fig.1 |
| BAV70W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig.3 |
| BAV99W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig.4 |
| BAW56W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig.2 |
| MMBD4148W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 1.0 | 75 | Fig.1 |
| MMBD4448W | 75 | 4.0 | 250 | 4.0 | 1.0 | 100 | 2.5 | 75 | Fig.1 |

350mW Switching Diodes / SOT-23

| | | | | | | | | | |
|-------------------------|-----|-----|-----|-----|------|-----|-----|-----|--------|
| BAL99 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig. 5 |
| BAW56 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig. 2 |
| BAV70 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig. 3 |
| BAV99 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig. 4 |
| BAS16 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 1.0 | 75 | Fig. 1 |
| MMBD914 _{NEW} | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig. 1 |
| MMBD4148 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 | Fig. 1 |
| MMBD4448 | 75 | 4.0 | 250 | 4.0 | 1.0 | 100 | 2.5 | 75 | Fig. 1 |
| MMBD7000 _{NEW} | 75 | 4.0 | 150 | 2.0 | 1.25 | 150 | 1.0 | 50 | Fig. 4 |
| BAS19* | 120 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 100 | Fig. 1 |
| BAS20* | 200 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 150 | Fig. 1 |
| BAS21* | 250 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 200 | Fig. 1 |
| BAS31 _{NEW} | 75 | 4.0 | 250 | 4.0 | 1.0 | 100 | 2.5 | 75 | Fig.4 |
| BAV23S* _{NEW} | 250 | 50 | 200 | 3.0 | 1.0 | 100 | 0.1 | 200 | Fig.4 |

*Power Dissipation (Pd) = 250mW

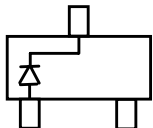


Figure 1, Single

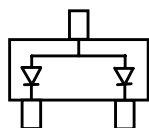


Figure 2, Common Anode

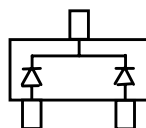


Figure 3, Common Cathode

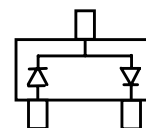


Figure 4, Series

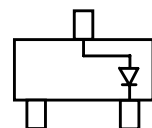


Figure 5, Single (Alt.)

(†) Reference product datasheet for specific test conditions.

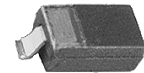
| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current (t) | Max. Peak Forward Surge Current (t) | Forward Voltage Drop | | Max. Reverse Current (t) | |
|-------------|---------------------------------|---------------------------|------------------------------------|-------------------------------------|----------------------|----|--------------------------|---|
| | V_{RRM} | t_{rr} | I_o | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | mA | A | V | mA | μA | V |

200mW Switching Diodes / SOD-323



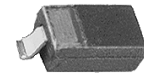
| | | | | | | | | |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1N4148WS | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 1.0 | 75 |
| 1N4448WS | 75 | 4.0 | 250 | 4.0 | 1.0 | 100 | 2.5 | 75 |
| BAV16WS | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 1.0 | 75 |
| BAV19WS | 120 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 100 |
| BAV20WS | 200 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 150 |
| BAV21WS | 250 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 200 |

250mW Switching Diodes / SOD-123



| | | | | | | | | |
|--------|-----|----|-----|-----|-----|-----|-----|-----|
| BAV19W | 120 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 100 |
| BAV20W | 200 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 150 |
| BAV21W | 250 | 50 | 200 | 2.5 | 1.0 | 100 | 0.1 | 200 |

350mW Switching Diodes / SOD-123



| | | | | | | | | |
|---------|----|-----|-----|-----|-----|-----|-----|----|
| 1N4148W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 2.5 | 75 |
| 1N4448W | 75 | 4.0 | 250 | 4.0 | 1.0 | 100 | 2.5 | 70 |
| BAV16W | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 1.0 | 75 |

500mW Switching Diodes / Micro-MELF





| | | | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|------|-----|
| BAV301 | 120 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 100 |
| BAV302 | 200 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 150 |
| BAV303 | 250 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 200 |
| MCL4154 | 25 | 2.0 | 100 | 2.0 | 1.0 | 30 | 0.1 | 25 |
| MCL4151 | 50 | 2.0 | 100 | 2.0 | 1.0 | 50 | 0.05 | 50 |
| MCL4148 | 75 | 4.0 | 100 | 2.0 | 1.0 | 50 | 5.0 | 75 |
| MCL4448 | 75 | 4.0 | 100 | 2.0 | 1.0 | 100 | 5.0 | 75 |

500mW Switching Diodes / Quadro-MELF



| | | | | | | | | |
|--------|-----|-----|-----|-----|-----|-----|------|-----|
| LS4154 | 25 | 2.0 | 150 | 2.0 | 1.0 | 30 | 0.1 | 25 |
| LS4150 | 35 | 4.0 | 300 | 4.0 | 1.0 | 200 | 0.1 | 50 |
| LS4151 | 50 | 2.0 | 150 | 2.0 | 1.0 | 50 | 0.05 | 50 |
| LS4148 | 75 | 4.0 | 150 | 2.0 | 1.0 | 50 | 5.0 | 75 |
| LS4448 | 75 | 4.0 | 150 | 2.0 | 1.0 | 100 | 5.0 | 75 |
| BAV201 | 120 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 100 |
| BAV202 | 200 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 150 |
| BAV203 | 250 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 200 |

(t) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (†) | Max. Average Rectified Current (†) | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|---|---------------------------------|---------------------------|------------------------------------|-------------------------------------|----------------------|-----|--------------------------|-----|
| | V_{RRM} | t_{rr} | I_O | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | mA | A | V | mA | μA | V |
| 500mW Switching Diodes / Mini-MELF  | | | | | | | | |
| LL4154 | 35 | 4.0 | 150 | 2.0 | 1.0 | 30 | 0.1 | 25 |
| LL4151 | 50 | 4.0 | 150 | 2.0 | 1.0 | 50 | 0.05 | 50 |
| LL4150 | 50 | 6.0 | 200 | 4.0 | 1.0 | 200 | 0.1 | 50 |
| LL4148 | 75 | 4.0 | 150 | 2.0 | 1.0 | 10 | 5.0 | 75 |
| LL4448 | 75 | 4.0 | 150 | 2.0 | 1.0 | 100 | 5.0 | 75 |
| BAV101 | 120 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 100 |
| BAV102 | 200 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 150 |
| BAV103 | 250 | 50 | 125 | 1.0 | 1.0 | 100 | 0.1 | 200 |
| 500mW Switching Diodes / DO-35  | | | | | | | | |
| 1N4154 | 25 | 4.0 | 150 | 2.0 | 1.0 | 30 | 0.1 | 25 |
| 1N4151 | 50 | 4.0 | 150 | 2.0 | 1.0 | 50 | 0.05 | 50 |
| 1N4150 | 50 | 6.0 | 200 | 4.0 | 1.0 | 200 | 0.1 | 50 |
| 1N4148 | 75 | 4.0 | 150 | 2.0 | 1.0 | 10 | 5.0 | 75 |
| 1N4448 | 75 | 4.0 | 150 | 2.0 | 1.0 | 100 | 5.0 | 75 |
| BAV20 | 200 | 50 | 200 | 1.0 | 1.0 | 100 | 0.1 | 150 |
| BAV21 | 250 | 50 | 200 | 1.0 | 1.0 | 100 | 0.1 | 200 |

(†) Reference product datasheet for specific test conditions.

Super-/Ultra Fast Recovery Rectifiers

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current (t) | | Max. Peak Forward Surge Current (t) | Forward Voltage Drop | | Max. Reverse Current (t) | |
|-------------|---------------------------------|---------------------------|------------------------------------|----|-------------------------------------|---------------------------------|---|---------------------------------|---|
| | V _{RRM} | t _{rr} | I _O @ T _T | | I _{FSM} | V _F @ I _F | | I _R @ V _R | |
| | V | ns | A | °C | A | V | A | μA | V |

1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMA



| | | | | | | | | | |
|------|------|----|-----|-----|----|------|-----|-----|------|
| ES1A | 50 | 20 | 1.0 | 110 | 30 | 0.98 | 1.0 | 5.0 | 50 |
| ES1B | 100 | 20 | 1.0 | 110 | 30 | 0.98 | 1.0 | 5.0 | 100 |
| ES1C | 150 | 20 | 1.0 | 110 | 30 | 0.98 | 1.0 | 5.0 | 150 |
| ES1D | 200 | 20 | 1.0 | 110 | 30 | 0.98 | 1.0 | 5.0 | 200 |
| ES1G | 400 | 20 | 1.0 | 110 | 30 | 1.25 | 1.0 | 5.0 | 400 |
| US1A | 50 | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 50 |
| US1B | 100 | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 100 |
| US1D | 200 | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 200 |
| US1G | 400 | 50 | 1.0 | 75 | 30 | 1.3 | 1.0 | 5.0 | 400 |
| US1J | 600 | 75 | 1.0 | 75 | 30 | 1.7 | 1.0 | 5.0 | 600 |
| US1K | 800 | 75 | 1.0 | 75 | 30 | 1.7 | 1.0 | 5.0 | 800 |
| US1M | 1000 | 75 | 1.0 | 75 | 30 | 1.7 | 1.0 | 5.0 | 1000 |

1.0A Super-/Ultra-Fast Recovery Rectifiers / DO-41



| | | | | | | | | | |
|--------|------|----|-----|-----|----|-----|-----|-----|------|
| UF1001 | 50 | 50 | 1.0 | 55* | 30 | 1.0 | 1.0 | 5.0 | 50 |
| UF1002 | 100 | 50 | 1.0 | 55* | 30 | 1.0 | 1.0 | 5.0 | 100 |
| UF1003 | 200 | 50 | 1.0 | 55* | 30 | 1.0 | 1.0 | 5.0 | 200 |
| UF1004 | 400 | 50 | 1.0 | 55* | 30 | 1.3 | 1.0 | 5.0 | 400 |
| UF1005 | 600 | 75 | 1.0 | 55* | 30 | 1.7 | 1.0 | 5.0 | 600 |
| UF1006 | 800 | 75 | 1.0 | 55* | 30 | 1.7 | 1.0 | 5.0 | 800 |
| UF1007 | 1000 | 75 | 1.0 | 55* | 30 | 1.7 | 1.0 | 5.0 | 1000 |

* TA, Ambient Temperature

1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / DO-41



| | | | | | | | | | |
|---------------------------|-----|----|-----|-----|----|------|-----|-----|-----|
| SF10AG | 50 | 35 | 1.0 | 75* | 30 | 0.95 | 1.0 | 10 | 50 |
| SF10BG | 100 | 35 | 1.0 | 75* | 30 | 0.95 | 1.0 | 10 | 100 |
| SF10CG | 150 | 35 | 1.0 | 75* | 30 | 0.95 | 1.0 | 10 | 150 |
| SF10DG | 200 | 35 | 1.0 | 75* | 30 | 0.95 | 1.0 | 10 | 200 |
| SF10FG | 300 | 40 | 1.0 | 75* | 30 | 1.3 | 1.0 | 10 | 300 |
| SF10GG | 400 | 40 | 1.0 | 75* | 30 | 1.3 | 1.0 | 10 | 400 |
| SF10HG | 500 | 50 | 1.0 | 75* | 30 | 1.5 | 1.0 | 10 | 500 |
| SF10JG | 600 | 50 | 1.0 | 75* | 30 | 1.5 | 1.0 | 10 | 600 |
| MUR140 <small>NEW</small> | 400 | 50 | 1.0 | 120 | 35 | 1.25 | 1.0 | 5.0 | 400 |
| MUR160 <small>NEW</small> | 600 | 50 | 1.0 | 120 | 35 | 1.25 | 1.0 | 5.0 | 600 |
| UG1001 | 50 | 50 | 1.0 | 55* | 30 | 1.0 | 1.0 | 5.0 | 50 |
| UG1002 | 100 | 50 | 1.0 | 55* | 30 | 1.0 | 1.0 | 5.0 | 100 |
| UG1003 | 200 | 50 | 1.0 | 55* | 30 | 1.0 | 1.0 | 5.0 | 200 |
| UG1004 | 400 | 50 | 1.0 | 55* | 30 | 1.3 | 1.0 | 5.0 | 400 |
| UG1005 | 600 | 75 | 1.0 | 55* | 30 | 1.7 | 1.0 | 5.0 | 600 |

(t) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (†) | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|---------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | t_{rr} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | A | °C | A | V | A | μA | V |

NEW



1.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMB

| | | | | | | | | | |
|---------|-----|----|-----|-----|----|------|-----|-----|-----|
| MURS140 | 400 | 50 | 1.0 | 120 | 35 | 1.25 | 1.0 | 5.0 | 400 |
| MURS160 | 600 | 50 | 1.0 | 120 | 35 | 1.25 | 1.0 | 5.0 | 600 |

1.5A Super-/Ultra-Fast Recovery Rectifiers / DO-15



| | | | | | | | | | |
|--------|------|----|-----|----|----|-----|-----|-----|------|
| UF1501 | 50 | 50 | 1.5 | 50 | 50 | 1.0 | 1.5 | 5.0 | 50 |
| UF1502 | 100 | 50 | 1.5 | 50 | 50 | 1.0 | 1.5 | 5.0 | 100 |
| UF1503 | 200 | 50 | 1.5 | 50 | 50 | 1.0 | 1.5 | 5.0 | 200 |
| UF1504 | 400 | 50 | 1.5 | 50 | 50 | 1.3 | 1.5 | 5.0 | 400 |
| UF1505 | 600 | 75 | 1.5 | 50 | 50 | 1.7 | 1.5 | 5.0 | 600 |
| UF1506 | 800 | 75 | 1.5 | 50 | 50 | 1.7 | 1.5 | 5.0 | 800 |
| UF1507 | 1000 | 75 | 1.5 | 50 | 50 | 1.7 | 1.5 | 5.0 | 1000 |

1.5A Super-/Ultra-Fast Recovery Rectifiers / DO-41



| | | | | | | | | | |
|---------|------|----|-----|----|----|-----|-----|-----|------|
| UF1501S | 50 | 50 | 1.5 | 50 | 50 | 1.0 | 1.5 | 5.0 | 50 |
| UF1502S | 100 | 50 | 1.5 | 50 | 50 | 1.0 | 1.5 | 5.0 | 100 |
| UF1503S | 200 | 50 | 1.5 | 50 | 50 | 1.0 | 1.5 | 5.0 | 200 |
| UF1504S | 400 | 50 | 1.5 | 50 | 50 | 1.3 | 1.5 | 5.0 | 400 |
| UF1505S | 600 | 75 | 1.5 | 50 | 50 | 1.7 | 1.5 | 5.0 | 600 |
| UF1506S | 800 | 75 | 1.5 | 50 | 50 | 1.7 | 1.5 | 5.0 | 800 |
| UF1507S | 1000 | 75 | 1.5 | 50 | 50 | 1.7 | 1.5 | 5.0 | 1000 |

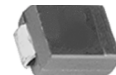
2.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMA



| | | | | | | | | | |
|-------|-----|----|-----|------|----|-----|-----|-----|-----|
| ES2AA | 50 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 50 |
| ES2BA | 100 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 100 |
| ES2CA | 150 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 150 |
| ES2DA | 200 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 200 |

* T_T , Terminal Temperature

2.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers / SMB



| | | | | | | | | | |
|------|-----|----|-----|------|----|-----|-----|-----|-----|
| ES2A | 50 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 50 |
| ES2B | 100 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 100 |
| ES2C | 150 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 150 |
| ES2D | 200 | 25 | 2.0 | 110* | 50 | 0.9 | 2.0 | 5.0 | 200 |

* T_T , Terminal Temperature

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (†) | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|---------------------------|------------------------------------|----|-------------------------------------|---------------------------------|---|---------------------------------|---|
| | V _{RRM} | t _{rr} | I _O @ T _A | | I _{FSM} | V _F @ I _F | | I _R @ V _R | |
| | V | ns | A | °C | A | V | A | µA | V |

2.0A Super-/Ultra-Fast Recovery Rectifiers / DO-15



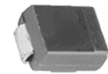
| | | | | | | | | | |
|--------|------|----|-----|----|----|-----|-----|-----|------|
| UF2001 | 50 | 50 | 2.0 | 50 | 60 | 1.0 | 2.0 | 5.0 | 50 |
| UF2002 | 100 | 50 | 2.0 | 50 | 60 | 1.0 | 2.0 | 5.0 | 100 |
| UF2003 | 200 | 50 | 2.0 | 50 | 60 | 1.0 | 2.0 | 5.0 | 200 |
| UF2004 | 400 | 50 | 2.0 | 50 | 60 | 1.3 | 2.0 | 5.0 | 400 |
| UF2005 | 600 | 75 | 2.0 | 50 | 60 | 1.7 | 2.0 | 5.0 | 600 |
| UF2006 | 800 | 75 | 2.0 | 50 | 60 | 1.7 | 2.0 | 5.0 | 800 |
| UF2007 | 1000 | 75 | 2.0 | 50 | 60 | 1.7 | 2.0 | 5.0 | 1000 |

2.0A Super-/Ultra-Fast Glass Passivated Recovery Rectifiers / DO-15



| | | | | | | | | | |
|--------|-----|----|-----|----|----|------|-----|-----|-----|
| SF20AG | 50 | 35 | 2.0 | 75 | 60 | 0.95 | 2.0 | 10 | 50 |
| SF20BG | 100 | 35 | 2.0 | 75 | 60 | 0.95 | 2.0 | 10 | 100 |
| SF20CG | 150 | 35 | 2.0 | 75 | 60 | 0.95 | 2.0 | 10 | 150 |
| SF20DG | 200 | 35 | 2.0 | 75 | 60 | 0.95 | 2.0 | 10 | 200 |
| SF20FG | 300 | 40 | 2.0 | 75 | 60 | 1.3 | 2.0 | 10 | 300 |
| SF20GG | 400 | 40 | 2.0 | 75 | 60 | 1.3 | 2.0 | 10 | 400 |
| SF20HG | 500 | 50 | 2.0 | 75 | 60 | 1.5 | 2.0 | 10 | 500 |
| SF20JG | 600 | 50 | 2.0 | 75 | 60 | 1.5 | 2.0 | 10 | 600 |
| UG2001 | 50 | 50 | 2.0 | 55 | 60 | 1.0 | 2.0 | 8.0 | 50 |
| UG2002 | 100 | 50 | 2.0 | 55 | 60 | 1.0 | 2.0 | 8.0 | 100 |
| UG2003 | 200 | 50 | 2.0 | 55 | 60 | 1.0 | 2.0 | 8.0 | 200 |
| UG2004 | 400 | 50 | 2.0 | 55 | 60 | 1.3 | 2.0 | 8.0 | 400 |
| UG2005 | 600 | 50 | 2.0 | 55 | 60 | 1.7 | 2.0 | 8.0 | 600 |

3.0A Super-/Ultra-Fast Glass Passivated Recovery Rectifiers / SMB



| | | | | | | | | | |
|-------|-----|----|-----|------|-----|-----|-----|----|-----|
| ES3AB | 50 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 50 |
| ES3BB | 100 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 100 |
| ES3CB | 150 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 150 |
| ES3DB | 200 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 200 |

*T_T, Terminal Temperature

3.0A Super-/Ultra-Fast Glass Passivated Recovery Rectifiers / SMC



| | | | | | | | | | |
|------|-----|----|-----|------|-----|-----|-----|----|-----|
| ES3A | 50 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 50 |
| ES3B | 100 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 100 |
| ES3C | 150 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 150 |
| ES3D | 200 | 25 | 3.0 | 100* | 100 | 0.9 | 3.0 | 10 | 200 |

*T_T, Terminal Temperature

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (†) | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|---------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | t_{rr} | $I_O @ T_C$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | A | °C | A | V | A | μA | V |

3.0A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers DO-201AD



| | | | | | | | | | |
|--------|-----|----|-----|----|-----|------|-----|-----|-----|
| SF30AG | 50 | 35 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 50 |
| SF30BG | 100 | 35 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 100 |
| SF30CG | 150 | 35 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 150 |
| SF30DG | 200 | 35 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 200 |
| SF30FG | 300 | 40 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 300 |
| SF30GG | 400 | 40 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 400 |
| SF30HG | 500 | 50 | 3.0 | 55 | 125 | 1.5 | 3.0 | 5.0 | 500 |
| SF30JG | 600 | 50 | 3.0 | 55 | 125 | 1.5 | 3.0 | 5.0 | 600 |
| UG3001 | 50 | 50 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 50 |
| UG3002 | 100 | 50 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 100 |
| UG3003 | 200 | 50 | 3.0 | 55 | 125 | 0.95 | 3.0 | 5.0 | 200 |
| UG3004 | 400 | 50 | 3.0 | 55 | 125 | 1.25 | 3.0 | 5.0 | 400 |
| UG3005 | 600 | 75 | 3.0 | 55 | 125 | 1.7 | 3.0 | 5.0 | 600 |

3.0A Super-/Ultra-Fast Recovery Rectifiers / DO-201AD



| | | | | | | | | | |
|--------|------|----|-----|----|-----|-----|-----|-----|------|
| UF3001 | 50 | 50 | 3.0 | 55 | 150 | 1.0 | 3.0 | 5.0 | 50 |
| UF3002 | 100 | 50 | 3.0 | 55 | 150 | 1.0 | 3.0 | 5.0 | 100 |
| UF3003 | 200 | 50 | 3.0 | 55 | 150 | 1.0 | 3.0 | 5.0 | 200 |
| UF3004 | 400 | 50 | 3.0 | 55 | 150 | 1.3 | 3.0 | 5.0 | 400 |
| UF3005 | 600 | 75 | 3.0 | 55 | 150 | 1.7 | 3.0 | 5.0 | 600 |
| UF3006 | 800 | 75 | 3.0 | 55 | 150 | 1.7 | 3.0 | 5.0 | 800 |
| UF3007 | 1000 | 75 | 3.0 | 55 | 150 | 1.7 | 3.0 | 5.0 | 1000 |



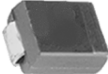
16A Super-/Ultra-Fast Recovery Glass Passivated Rectifiers (DUAL) D²PAK



| | | | | | | | | | |
|------------|-----|----|----|-----|-----|-------|-----|-----|-----|
| MURB1610CT | 100 | 25 | 16 | 125 | 100 | 0.975 | 8.0 | 5.0 | 100 |
| MURB1620CT | 200 | 25 | 16 | 125 | 100 | 0.975 | 8.0 | 5.0 | 200 |

(†) Reference product datasheet for specific test conditions.

Fast Recovery Rectifiers

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current | | Max. Peak Forward Surge Current | Forward Voltage Drop | | Max. Reverse Current | |
|---|---------------------------------|---------------------------|--------------------------------|-----|---------------------------------|----------------------|-----|----------------------|------|
| | V_{RRM} | t_{rr} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | A | °C | A | V | A | μA | V |
| 1.0A Fast Recovery Glass Passivated Rectifiers / MELF  | | | | | | | | | |
| DL4933 | 50 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| DL4934 | 100 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| DL4935 | 200 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| DL4936 | 400 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| DL4937 | 600 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |
| 1.0A Fast Recovery Glass Passivated Rectifiers / SMA  | | | | | | | | | |
| RS1A | 50 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 50 |
| RS1B | 100 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 100 |
| RS1D | 200 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 200 |
| RS1G | 400 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 400 |
| RS1J | 600 | 250 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 600 |
| RS1K | 800 | 500 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 800 |
| RS1M | 1000 | 500 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 1000 |
| 1.0A Fast Recovery Glass Passivated Rectifiers / SMB  | | | | | | | | | |
| RS1AB | 50 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 50 |
| RS1BB | 100 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 100 |
| RS1DB | 200 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 200 |
| RS1GB | 400 | 150 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 400 |
| RS1JB | 600 | 250 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 600 |
| RS1KB | 800 | 500 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 800 |
| RS1MB | 1000 | 500 | 1.0 | 120 | 30 | 1.3 | 1.0 | 5.0 | 1000 |

(t) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current | | Max. Peak Forward Surge Current | Forward Voltage Drop | | Max. Reverse Current | |
|-------------|---------------------------------|---------------------------|--------------------------------|----|---------------------------------|----------------------|---|----------------------|---|
| | V_{RRM} | t_{rr} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | A | °C | A | V | A | μA | V |

1.0A Fast Recovery Rectifiers / DO-41



| | | | | | | | | | |
|--------|-----|-----|-----|----|----|-----|-----|-----|-----|
| PR1001 | 50 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| PR1002 | 100 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| PR1003 | 200 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| PR1004 | 400 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| PR1005 | 600 | 250 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |
| 1N4933 | 50 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| 1N4934 | 100 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| 1N4935 | 200 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| 1N4936 | 400 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| 1N4937 | 600 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |

1.0A Fast Recovery Glass Passivated Rectifiers / DO-41



| | | | | | | | | | |
|---------|------|-----|-----|----|----|-----|-----|-----|------|
| PR1001G | 50 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 50 |
| PR1002G | 100 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 100 |
| PR1003G | 200 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 200 |
| PR1004G | 400 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 400 |
| PR1005G | 600 | 250 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 600 |
| PR1006G | 800 | 500 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 800 |
| PR1007G | 1000 | 500 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 1000 |
| 1N4933G | 50 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| 1N4934G | 100 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| 1N4935G | 200 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| 1N4936G | 400 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| 1N4937G | 600 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |

1.0A Fast Recovery Rectifiers / A-405



| | | | | | | | | | |
|---------|-----|-----|-----|----|----|-----|-----|-----|-----|
| PR1001L | 50 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| PR1002L | 100 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| PR1003L | 200 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| PR1004L | 400 | 150 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| PR1005L | 600 | 250 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |
| 1N4933L | 50 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| 1N4934L | 100 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| 1N4935L | 200 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| 1N4936L | 400 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| 1N4937L | 600 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |

1.0A Fast Recovery Glass Passivated Rectifiers / A-405



| | | | | | | | | | |
|----------|------|-----|-----|----|----|-----|-----|-----|------|
| PR1001GL | 50 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 50 |
| PR1002GL | 100 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 100 |
| PR1003GL | 200 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 200 |
| PR1004GL | 400 | 150 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 400 |
| PR1005GL | 600 | 250 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 600 |
| PR1006GL | 800 | 500 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 800 |
| PR1007GL | 1000 | 500 | 1.0 | 55 | 30 | 1.3 | 1.0 | 5.0 | 1000 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current | | Max. Peak Forward Surge Current | Forward Voltage Drop | | Max. Reverse Current | |
|-------------|---------------------------------|---------------------------|---------------------------------|----|---------------------------------|---------------------------------|---|---------------------------------|---|
| | V _{R_{RM}} | t _{rr} | I _O @ T _T | | I _{FSM} | V _F @ I _F | | I _R @ V _R | |
| | V | ns | A | °C | A | V | A | μA | V |

1.0A Fast Recovery Glass Passivated Rectifiers / A-405 (Continued)



| | | | | | | | | | |
|----------|-----|-----|-----|----|----|-----|-----|-----|-----|
| 1N4933GL | 50 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 50 |
| 1N4934GL | 100 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 100 |
| 1N4935GL | 200 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 200 |
| 1N4936GL | 400 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 400 |
| 1N4937GL | 600 | 200 | 1.0 | 75 | 30 | 1.2 | 1.0 | 5.0 | 600 |

1.5A Fast Recovery Glass Passivated Rectifiers / SMA



| | | | | | | | | | |
|-------|------|-----|-----|-----|----|-----|-----|-----|------|
| RS2AA | 50 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 50 |
| RS2BA | 100 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 100 |
| RS2DA | 200 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 200 |
| RS2GA | 400 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 400 |
| RS2JA | 600 | 250 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 600 |
| RS2KA | 800 | 500 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 800 |
| RS2MA | 1000 | 500 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 1000 |

1.5A Fast Recovery Glass Passivated Rectifiers / SMB



| | | | | | | | | | |
|------|------|-----|-----|-----|----|-----|-----|-----|------|
| RS2A | 50 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 50 |
| RS2B | 100 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 100 |
| RS2D | 200 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 200 |
| RS2G | 400 | 150 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 400 |
| RS2J | 600 | 250 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 600 |
| RS2K | 800 | 500 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 800 |
| RS2M | 1000 | 500 | 1.5 | 120 | 50 | 1.3 | 1.5 | 5.0 | 1000 |

1.5A Fast Recovery Rectifiers / DO-15



| | | | | | | | | | |
|--------|-----|-----|-----|-----|----|-----|-----|-----|-----|
| PR1501 | 50 | 150 | 1.5 | 50* | 50 | 1.2 | 1.5 | 5.0 | 50 |
| PR1502 | 100 | 150 | 1.5 | 50* | 50 | 1.2 | 1.5 | 5.0 | 100 |
| PR1503 | 200 | 150 | 1.5 | 50* | 50 | 1.2 | 1.5 | 5.0 | 200 |
| PR1504 | 400 | 150 | 1.5 | 50* | 50 | 1.2 | 1.5 | 5.0 | 400 |
| PR1505 | 600 | 250 | 1.5 | 50* | 50 | 1.2 | 1.5 | 5.0 | 600 |

1.5A Fast Recovery Glass Passivated Rectifiers / DO-15



| | | | | | | | | | |
|---------|------|-----|-----|-----|----|-----|-----|-----|------|
| PR1501G | 50 | 150 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 50 |
| PR1502G | 100 | 150 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 100 |
| PR1503G | 200 | 150 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 200 |
| PR1504G | 400 | 150 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 400 |
| PR1505G | 600 | 250 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 600 |
| PR1506G | 800 | 500 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 800 |
| PR1507G | 1000 | 500 | 1.5 | 55* | 50 | 1.3 | 1.5 | 5.0 | 1000 |

* T_A, Ambient Temperature

(t) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current | | Max. Peak Forward Surge Current | Forward Voltage Drop | | Max. Reverse Current | |
|-------------|---------------------------------|---------------------------|--------------------------------|----|---------------------------------|----------------------|---|----------------------|---|
| | V_{RRM} | t_{rr} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | A | °C | A | V | A | μA | V |

1.5A Fast Recovery Rectifiers / DO-41



| | | | | | | | | | |
|---------|-----|-----|-----|----|----|-----|-----|-----|-----|
| PR1501S | 50 | 150 | 1.5 | 50 | 50 | 1.2 | 1.5 | 5.0 | 50 |
| PR1502S | 100 | 150 | 1.5 | 50 | 50 | 1.2 | 1.5 | 5.0 | 100 |
| PR1503S | 200 | 150 | 1.5 | 50 | 50 | 1.2 | 1.5 | 5.0 | 200 |
| PR1504S | 400 | 150 | 1.5 | 50 | 50 | 1.2 | 1.5 | 5.0 | 400 |
| PR1505S | 600 | 250 | 1.5 | 50 | 50 | 1.2 | 1.5 | 5.0 | 600 |

1.5A Fast Recovery Glass Passivated Rectifiers / DO-41



| | | | | | | | | | |
|----------|------|-----|-----|----|----|-----|-----|-----|------|
| PR1501GS | 50 | 150 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 50 |
| PR1502GS | 100 | 150 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 100 |
| PR1503GS | 200 | 150 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 200 |
| PR1504GS | 400 | 150 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 400 |
| PR1505GS | 600 | 250 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 600 |
| PR1506GS | 800 | 500 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 800 |
| PR1507GS | 1000 | 500 | 1.5 | 55 | 50 | 1.3 | 1.5 | 5.0 | 1000 |

2.0A Fast Recovery Rectifiers / DO-15



| | | | | | | | | | |
|--------|-----|-----|-----|----|----|-----|-----|-----|-----|
| PR2001 | 50 | 150 | 2.0 | 50 | 50 | 1.2 | 2.0 | 5.0 | 50 |
| PR2002 | 100 | 150 | 2.0 | 50 | 50 | 1.2 | 2.0 | 5.0 | 100 |
| PR2003 | 200 | 150 | 2.0 | 50 | 50 | 1.2 | 2.0 | 5.0 | 200 |
| PR2004 | 400 | 150 | 2.0 | 50 | 50 | 1.2 | 2.0 | 5.0 | 400 |
| PR2005 | 600 | 250 | 2.0 | 50 | 50 | 1.2 | 2.0 | 5.0 | 600 |

2.0A Fast Recovery Glass Passivated Rectifiers / DO-15



| | | | | | | | | | |
|---------|------|-----|-----|----|----|-----|-----|-----|------|
| PR2001G | 50 | 150 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 50 |
| PR2002G | 100 | 150 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 100 |
| PR2003G | 200 | 150 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 200 |
| PR2004G | 400 | 150 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 400 |
| PR2005G | 600 | 250 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 600 |
| PR2006G | 800 | 500 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 800 |
| PR2007G | 1000 | 500 | 2.0 | 55 | 80 | 1.3 | 2.0 | 5.0 | 1000 |

3.0A Fast Recovery Glass Passivated Rectifiers / SMB



| | | | | | | | | | |
|-------|------|-----|-----|-----|-----|-----|-----|-----|------|
| RS3AB | 50 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 50 |
| RS3BB | 100 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 100 |
| RS3DB | 200 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 200 |
| RS3GB | 400 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 400 |
| RS3JB | 600 | 250 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 600 |
| RS3KB | 800 | 500 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 800 |
| RS3MB | 1000 | 500 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 1000 |

* T_T , Terminal Temperature

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Reverse Recovery Time (t) | Max. Average Rectified Current | | Max. Peak Forward Surge Current | Forward Voltage Drop | | Max. Reverse Current | |
|-------------|---------------------------------|---------------------------|--------------------------------|----|---------------------------------|----------------------|---|----------------------|---|
| | V_{RRM} | t_{rr} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | ns | A | °C | A | V | A | μA | V |

3.0A Fast Recovery Glass Passivated Rectifiers / SMC



| | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|------|
| RS3A | 50 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 50 |
| RS3B | 100 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 100 |
| RS3D | 200 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 200 |
| RS3G | 400 | 150 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 400 |
| RS3J | 600 | 250 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 600 |
| RS3K | 800 | 500 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 800 |
| RS3M | 1000 | 500 | 3.0 | 75* | 100 | 1.3 | 3.0 | 5.0 | 1000 |

* T_T , Terminal Temperature

3.0A Fast Recovery Rectifiers / DO-201AD



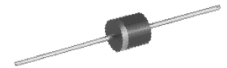
| | | | | | | | | | |
|--------|-----|-----|-----|----|-----|-----|-----|-----|-----|
| PR3001 | 50 | 150 | 3.0 | 90 | 150 | 1.2 | 3.0 | 5.0 | 50 |
| PR3002 | 100 | 150 | 3.0 | 90 | 150 | 1.2 | 3.0 | 5.0 | 100 |
| PR3003 | 200 | 150 | 3.0 | 90 | 150 | 1.2 | 3.0 | 5.0 | 200 |
| PR3004 | 400 | 150 | 3.0 | 90 | 150 | 1.2 | 3.0 | 5.0 | 400 |
| PR3005 | 600 | 250 | 3.0 | 90 | 150 | 1.2 | 3.0 | 5.0 | 600 |

3.0A Fast Recovery Glass Passivated Rectifiers / DO-201AD



| | | | | | | | | | |
|---------|------|-----|-----|----|-----|-----|-----|-----|------|
| PR3001G | 50 | 150 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 50 |
| PR3002G | 100 | 150 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 100 |
| PR3003G | 200 | 150 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 200 |
| PR3004G | 400 | 250 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 400 |
| PR3005G | 600 | 250 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 600 |
| PR3006G | 800 | 500 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 800 |
| PR3007G | 1000 | 500 | 3.0 | 55 | 125 | 1.3 | 3.0 | 5.0 | 1000 |



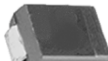

6.0A Fast Recovery Rectifiers / R-6



| | | | | | | | | | |
|--------|-----|-----|-----|----|-----|-----|-----|----|-----|
| PR6001 | 50 | 150 | 6.0 | 60 | 300 | 1.2 | 6.0 | 10 | 50 |
| PR6002 | 100 | 150 | 6.0 | 60 | 300 | 1.2 | 6.0 | 10 | 100 |
| PR6003 | 200 | 150 | 6.0 | 60 | 300 | 1.2 | 6.0 | 10 | 200 |
| PR6004 | 400 | 150 | 6.0 | 60 | 300 | 1.2 | 6.0 | 10 | 400 |
| PR6005 | 600 | 250 | 6.0 | 60 | 300 | 1.2 | 6.0 | 10 | 600 |

(t) Reference product datasheet for specific test conditions.

Standard Recovery Rectifiers

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|---|---------------------------------|------------------------------------|-----|-------------------------------------|----------------------|-----|--------------------------|------|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |
| 1.0A Standard Recovery Glass Passivated Rectifiers / MELF  | | | | | | | | |
| DL4001 | 50 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 50 |
| DL4002 | 100 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 100 |
| DL4003 | 200 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 200 |
| DL4004 | 400 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 400 |
| DL4005 | 600 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 600 |
| DL4006 | 800 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 800 |
| DL4007 | 1000 | 1.0 | 75 | 30 | 1.1 | 1.0 | 5.0 | 1000 |
| 1.0A Standard Recovery Glass Passivated Rectifiers / SMA  | | | | | | | | |
| S1A | 50 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 50 |
| S1B | 100 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 100 |
| S1D | 200 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 200 |
| S1G | 400 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 400 |
| S1J | 600 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 600 |
| S1K | 800 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 800 |
| S1M | 1000 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 1000 |
| 1.0A Standard Recovery Glass Passivated Rectifiers / SMB  | | | | | | | | |
| S1AB | 50 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 50 |
| S1BB | 100 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 100 |
| S1DB | 200 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 200 |
| S1GB | 400 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 400 |
| S1JB | 600 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 600 |
| S1KB | 800 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 800 |
| S1MB | 1000 | 1.0 | 100 | 30 | 1.1 | 1.0 | 5.0 | 1000 |
| 1.0A Standard Recovery Glass Passivated Rectifiers / T-1  | | | | | | | | |
| D1G | 50 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 50 |
| D2G | 100 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 100 |
| D3G | 200 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 200 |
| D4G | 400 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 400 |
| D5G | 600 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 600 |
| D6G | 800 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 800 |
| D7G | 1000 | 1.0 | 75* | 30 | 1.0 | 1.0 | 5.0 | 1000 |

* T_A , Ambient Temperature

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |

1.0A Standard Recovery Rectifiers / DO-41



| | | | | | | | | |
|--------|------|-----|----|----|-----|-----|-----|------|
| 1N4001 | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 50 |
| 1N4002 | 100 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 100 |
| 1N4003 | 200 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 200 |
| 1N4004 | 400 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 400 |
| 1N4005 | 600 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 600 |
| 1N4006 | 800 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 800 |
| 1N4007 | 1000 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 1000 |

1.0A Standard Recovery Glass Passivated Rectifiers / DO-41



| | | | | | | | | |
|---------|------|-----|----|----|-----|-----|-----|------|
| 1N4001G | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 50 |
| 1N4002G | 100 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 100 |
| 1N4003G | 200 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 200 |
| 1N4004G | 400 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 400 |
| 1N4005G | 600 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 600 |
| 1N4006G | 800 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 800 |
| 1N4007G | 1000 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 1000 |

1.0A Standard Recovery Rectifiers / A-405



| | | | | | | | | |
|---------|------|-----|----|----|-----|-----|-----|------|
| 1N4001L | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 50 |
| 1N4002L | 100 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 100 |
| 1N4003L | 200 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 200 |
| 1N4004L | 400 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 400 |
| 1N4005L | 600 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 600 |
| 1N4006L | 800 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 800 |
| 1N4007L | 1000 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 1000 |

1.0A Standard Recovery Glass Passivated Rectifiers / A-405



| | | | | | | | | |
|----------|------|-----|----|----|-----|-----|-----|------|
| 1N4001GL | 50 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 50 |
| 1N4002GL | 100 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 100 |
| 1N4003GL | 200 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 200 |
| 1N4004GL | 400 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 400 |
| 1N4005GL | 600 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 600 |
| 1N4006GL | 800 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 800 |
| 1N4007GL | 1000 | 1.0 | 75 | 30 | 1.0 | 1.0 | 5.0 | 1000 |

1.5A Standard Recovery Glass Passivated Rectifiers / SMA



| | | | | | | | | |
|------|------|-----|------|----|------|-----|-----|------|
| S2AA | 50 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 50 |
| S2BA | 100 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 100 |
| S2DA | 200 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 200 |
| S2GA | 400 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 400 |
| S2JA | 600 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 600 |
| S2KA | 800 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 800 |
| S2MA | 1000 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 1000 |

* T_T , Terminal Temperature

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |

1.5A Standard Recovery Glass Passivated Rectifiers / SMB



| | | | | | | | | |
|-----|------|-----|------|----|------|-----|-----|------|
| S2A | 50 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 50 |
| S2B | 100 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 100 |
| S2D | 200 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 200 |
| S2G | 400 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 400 |
| S2J | 600 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 600 |
| S2K | 800 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 800 |
| S2M | 1000 | 1.5 | 100* | 50 | 1.15 | 1.5 | 5.0 | 1000 |

* T_T , Terminal Temperature

1.5A Standard Recovery Rectifiers / DO-15



| | | | | | | | | |
|--------|------|-----|----|----|-----|-----|-----|------|
| 1N5391 | 50 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 50 |
| 1N5392 | 100 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 100 |
| 1N5393 | 200 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 200 |
| 1N5395 | 400 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 400 |
| 1N5397 | 600 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 600 |
| 1N5398 | 800 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 800 |
| 1N5399 | 1000 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 1000 |

1.5A Standard Recovery Glass Passivated Rectifiers / DO-15



| | | | | | | | | |
|---------|------|-----|----|----|-----|-----|-----|------|
| LT1501G | 50 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 50 |
| LT1502G | 100 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 100 |
| LT1503G | 200 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 200 |
| LT1504G | 400 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 400 |
| LT1505G | 600 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 600 |
| LT1506G | 800 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 800 |
| LT1507G | 1000 | 1.5 | 55 | 50 | 1.1 | 1.5 | 5.0 | 1000 |

1.5A Standard Recovery Rectifiers / DO-41



| | | | | | | | | |
|---------|------|-----|----|----|-----|-----|-----|------|
| 1N5391S | 50 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 50 |
| 1N5392S | 100 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 100 |
| 1N5393S | 200 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 200 |
| 1N5395S | 400 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 400 |
| 1N5397S | 600 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 600 |
| 1N5398S | 800 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 800 |
| 1N5399S | 1000 | 1.5 | 70 | 50 | 1.1 | 1.5 | 5.0 | 1000 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | $I_O @ T_T$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |

2.0A Standard Recovery Rectifiers / DO-15



| | | | | | | | | |
|--------|------|-----|-----|----|-----|-----|-----|------|
| LT2A01 | 50 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 50 |
| LT2A02 | 100 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 100 |
| LT2A03 | 200 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 200 |
| LT2A04 | 400 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 400 |
| LT2A05 | 600 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 600 |
| LT2A06 | 800 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 800 |
| LT2A07 | 1000 | 2.0 | 55* | 70 | 1.1 | 2.0 | 5.0 | 1000 |

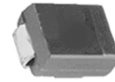
2.0A Standard Recovery Glass Passivated Rectifiers / DO-15



| | | | | | | | | |
|---------|------|-----|-----|----|-----|-----|-----|------|
| LT2A01G | 50 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 50 |
| LT2A02G | 100 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 100 |
| LT2A03G | 200 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 200 |
| LT2A04G | 400 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 400 |
| LT2A05G | 600 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 600 |
| LT2A06G | 800 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 800 |
| LT2A07G | 1000 | 2.0 | 55* | 65 | 1.1 | 2.0 | 5.0 | 1000 |

* T_T Terminal Temperature

3.0A Standard Recovery Glass Passivated Rectifiers / SMB



| | | | | | | | | |
|------|------|-----|----|-----|------|-----|----|------|
| S3AB | 50 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 50 |
| S3BB | 100 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 100 |
| S3DB | 200 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 200 |
| S3GB | 400 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 400 |
| S3JB | 600 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 600 |
| S3KB | 800 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 800 |
| S3MB | 1000 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 1000 |

3.0A Standard Recovery Glass Passivated Rectifiers / SMC



| | | | | | | | | |
|-----|------|-----|----|-----|------|-----|----|------|
| S3A | 50 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 50 |
| S3B | 100 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 100 |
| S3D | 200 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 200 |
| S3G | 400 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 400 |
| S3J | 600 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 600 |
| S3K | 800 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 800 |
| S3M | 1000 | 3.0 | 75 | 100 | 1.15 | 3.0 | 10 | 1000 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |

3.0A Standard Recovery Rectifiers / DO-201AD



| | | | | | | | | |
|--------|------|-----|-----|-----|-----|-----|----|------|
| 1N5400 | 50 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 50 |
| 1N5401 | 100 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 100 |
| 1N5402 | 200 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 200 |
| 1N5404 | 400 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 400 |
| 1N5406 | 600 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 600 |
| 1N5407 | 800 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 800 |
| 1N5408 | 1000 | 3.0 | 105 | 200 | 1.0 | 3.0 | 10 | 1000 |

3.0A Standard Recovery Glass Passivated Rectifiers / DO-201AD



| | | | | | | | | |
|---------|------|-----|----|-----|-----|-----|-----|------|
| 1N5400G | 50 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 50 |
| 1N5401G | 100 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 100 |
| 1N5402G | 200 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 200 |
| 1N5403G | 300 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 300 |
| 1N5404G | 400 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 400 |
| 1N5405G | 500 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 500 |
| 1N5406G | 600 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 600 |
| 1N5407G | 800 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 800 |
| 1N5408G | 1000 | 3.0 | 55 | 125 | 1.1 | 3.0 | 5.0 | 1000 |

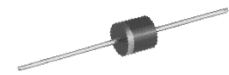
5.0A Standard Recovery Glass Passivated Rectifiers / SMC



| | | | | | | | | |
|------|------|-----|-----|-----|------|-----|----|------|
| S5AC | 50 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 50 |
| S5BC | 100 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 100 |
| S5DC | 200 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 200 |
| S5GC | 400 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 400 |
| S5JC | 600 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 600 |
| S5KC | 800 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 800 |
| S5MC | 1000 | 5.0 | 75* | 100 | 1.15 | 5.0 | 10 | 1000 |

* T_T , Terminal Temperature

6.0A/10A Standard Recovery Rectifiers / R-6



| | | | | | | | | |
|---------|------|-----|----|-----|-----|-----|----|------|
| LT6A01 | 50 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 50 |
| LT6A02 | 100 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 100 |
| LT6A03 | 200 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 200 |
| LT6A04 | 400 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 400 |
| LT6A05 | 600 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 600 |
| LT6A06 | 800 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 800 |
| LT6A07 | 1000 | 6.0 | 60 | 400 | 1.0 | 6.0 | 10 | 1000 |
| LT10A01 | 50 | 10 | 50 | 600 | 1.0 | 10 | 10 | 50 |
| LT10A02 | 100 | 10 | 50 | 600 | 1.0 | 10 | 10 | 100 |
| LT10A03 | 200 | 10 | 50 | 600 | 1.0 | 10 | 10 | 200 |
| LT10A04 | 400 | 10 | 50 | 600 | 1.0 | 10 | 10 | 400 |
| LT10A05 | 600 | 10 | 50 | 600 | 1.0 | 10 | 10 | 600 |
| LT10A06 | 800 | 10 | 50 | 600 | 1.0 | 10 | 10 | 800 |
| LT10A07 | 1000 | 10 | 50 | 600 | 1.0 | 10 | 10 | 1000 |

(†) Reference product datasheet for specific test conditions.

Bridge Rectifiers

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | | |
|---|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|-----|--------------------------|------|--|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | | |
| | V | A | °C | A | V | A | µA | V | |
| 0.8A Glass Passivated Bridge Rectifiers / HD MiniDIP | | | | | | | | | |
| HD01 | 100 | 0.8 | 40 | 30 | 1.0 | 0.4 | 5.0 | 100 | |
| HD02 | 200 | 0.8 | 40 | 30 | 1.0 | 0.4 | 5.0 | 200 | |
| HD04 | 400 | 0.8 | 40 | 30 | 1.0 | 0.4 | 5.0 | 400 | |
| HD06 | 600 | 0.8 | 40 | 30 | 1.0 | 0.4 | 5.0 | 600 | |
| 1.0A Glass Passivated Bridge Rectifiers / DF-S | | | | | | | | | |
| DF005S | 50 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 50 | |
| DF01S | 100 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 100 | |
| DF02S | 200 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 200 | |
| DF04S | 400 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 400 | |
| DF06S | 600 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 600 | |
| DF08S | 800 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 800 | |
| DF10S | 1000 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 1000 | |
| 1.0A Glass Passivated Bridge Rectifiers / DF-M | | | | | | | | | |
| DF005M | 50 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 50 | |
| DF01M | 100 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 100 | |
| DF02M | 200 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 200 | |
| DF04M | 400 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 400 | |
| DF06M | 600 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 600 | |
| DF08M | 800 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 800 | |
| DF10M | 1000 | 1.0 | 40 | 50 | 1.1 | 1.0 | 10 | 1000 | |
| 1.5A Glass Passivated Bridge Rectifiers / DF-S | | | | | | | | | |
| DF15005S | 50 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 50 | |
| DF1501S | 100 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 100 | |
| DF1502S | 200 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 200 | |
| DF1504S | 400 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 400 | |
| DF1506S | 600 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 600 | |
| DF1508S | 800 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 800 | |
| DF1510S | 1000 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 1000 | |
| 1.5A Glass Passivated Bridge Rectifiers / DF-M | | | | | | | | | |
| DF15005M | 50 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 50 | |
| DF1501M | 100 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 100 | |
| DF1502M | 200 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 200 | |
| DF1504M | 400 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 400 | |
| DF1506M | 600 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 600 | |
| DF1508M | 800 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 800 | |
| DF1510M | 1000 | 1.5 | 40 | 50 | 1.1 | 1.5 | 10 | 1000 | |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|-------------|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|---|--------------------------|---|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |

1.5A Glass Passivated Bridge Rectifiers / WOG



| | | | | | | | | |
|-------|------|-----|-----|----|-----|-----|-----|------|
| W005G | 50 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 50 |
| W01G | 100 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 100 |
| W02G | 200 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 200 |
| W04G | 400 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 400 |
| W06G | 600 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 600 |
| W08G | 800 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 800 |
| W10G | 1000 | 1.5 | 25* | 50 | 1.0 | 1.5 | 5.0 | 1000 |

* TA, Ambient temperature

1.5A Glass Passivated Bridge Rectifiers / KBP



| | | | | | | | | |
|---------|------|-----|-----|----|-----|-----|-----|------|
| KBP005G | 50 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 50 |
| KBP01G | 100 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 100 |
| KBP02G | 200 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 200 |
| KBP04G | 400 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 400 |
| KBP06G | 600 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 600 |
| KBP08G | 800 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 800 |
| KBP10G | 1000 | 1.5 | 105 | 40 | 1.1 | 1.5 | 5.0 | 1000 |

2.0A Glass Passivated Bridge Rectifiers / WOG



| | | | | | | | | |
|--------|------|-----|-----|----|-----|-----|-----|------|
| 2W005G | 50 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 50 |
| 2W01G | 100 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 100 |
| 2W02G | 200 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 200 |
| 2W04G | 400 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 400 |
| 2W06G | 600 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 600 |
| 2W08G | 800 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 800 |
| 2W10G | 1000 | 2.0 | 25* | 60 | 1.1 | 2.0 | 5.0 | 1000 |


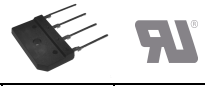

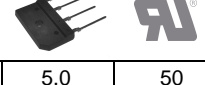

* TA, Ambient temperature

2.0A Glass Passivated Bridge Rectifiers / KBP









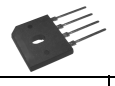





| | | | | | | | | |
|----------|------|-----|-----|----|-----|-----|-----|------|
| KBP2005G | 50 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 50 |
| KBP201G | 100 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 100 |
| KBP202G | 200 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 200 |
| KBP204G | 400 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 400 |
| KBP206G | 600 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 600 |
| KBP208G | 800 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 800 |
| KBP210G | 1000 | 2.0 | 105 | 65 | 1.1 | 2.0 | 5.0 | 1000 |



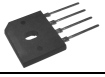







(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|--|---------------------------------|------------------------------------|-----|-------------------------------------|---------------------------------|-----|---------------------------------|------|
| | V _{RRM} | I _O @ T _A | | I _{FSM} | V _F @ I _F | | I _R @ V _R | |
| | V | A | °C | A | V | A | µA | V |
| 3.0A Bridge Rectifiers / PBPC-3  | | | | | | | | |
| PBPC301 | 50 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 50 |
| PBPC302 | 100 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 100 |
| PBPC303 | 200 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 200 |
| PBPC304 | 400 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 400 |
| PBPC305 | 600 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 600 |
| PBPC306 | 800 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 800 |
| PBPC307 | 1000 | 3.0 | 50 | 50 | 1.2 | 1.5 | 10 | 1000 |
| 4.0A Glass Passivated Bridge Rectifiers / KBJ  | | | | | | | | |
| KBJ4005G | 50 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 50 |
| KBJ401G | 100 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 100 |
| KBJ402G | 200 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 200 |
| KBJ404G | 400 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 400 |
| KBJ406G | 600 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 600 |
| KBJ408G | 800 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 800 |
| KBJ410G | 1000 | 4.0 | 115 | 120 | 1.0 | 2.0 | 5.0 | 1000 |
| 4.0A Glass Passivated Bridge Rectifiers / GBU <i>NEW</i>  | | | | | | | | |
| GBU4005 | 50 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 50 |
| GBU401 | 100 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 100 |
| GBU402 | 200 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 200 |
| GBU404 | 400 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 400 |
| GBU406 | 600 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 600 |
| GBU408 | 800 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 800 |
| GBU410 | 1000 | 4.0 | 100 | 150 | 1.0 | 2.0 | 5.0 | 1000 |
| 6.0A Glass Passivated Bridge Rectifiers / KBJ  | | | | | | | | |
| KBJ6005G | 50 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 50 |
| KBJ601G | 100 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 100 |
| KBJ602G | 200 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 200 |
| KBJ604G | 400 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 400 |
| KBJ606G | 600 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 600 |
| KBJ608G | 800 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 800 |
| KBJ610G | 1000 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 1000 |
| 6.0A Glass Passivated Bridge Rectifiers / GBJ  | | | | | | | | |
| GBJ6005 | 50 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 50 |
| GBJ601 | 100 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 100 |
| GBJ602 | 200 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 200 |
| GBJ604 | 400 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 400 |
| GBJ606 | 600 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 600 |
| GBJ608 | 800 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 800 |
| GBJ610 | 1000 | 6.0 | 110 | 170 | 1.0 | 3.0 | 5.0 | 1000 |











(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | | |
|--|---------------------------------|------------------------------------|-----|-------------------------------------|----------------------|-----|--------------------------|------|--|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | | |
| | V | A | °C | A | V | A | μA | V | |
| 6.0A Glass Passivated Bridge Rectifiers / GBU    | | | | | | | | | |
| GBU6005 | 50 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 50 | |
| GBU601 | 100 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 100 | |
| GBU602 | 200 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 200 | |
| GBU604 | 400 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 400 | |
| GBU606 | 600 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 600 | |
| GBU608 | 800 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 800 | |
| GBU610 | 1000 | 6.0 | 100 | 175 | 1.0 | 3.0 | 5.0 | 1000 | |
| 6.0A Bridge Rectifiers / PBPC-3   | | | | | | | | | |
| PBPC601 | 50 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 50 | |
| PBPC602 | 100 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 100 | |
| PBPC603 | 200 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 200 | |
| PBPC604 | 400 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 400 | |
| PBPC605 | 600 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 600 | |
| PBPC606 | 800 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 800 | |
| PBPC607 | 1000 | 6.0 | 50 | 125 | 1.1 | 3.0 | 10 | 1000 | |
| 8.0A Glass Passivated Bridge Rectifiers / GBJ   | | | | | | | | | |
| GBJ8005 | 50 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 50 | |
| GBJ801 | 100 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 100 | |
| GBJ802 | 200 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 200 | |
| GBJ804 | 400 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 400 | |
| GBJ806 | 600 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 600 | |
| GBJ808 | 800 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 800 | |
| GBJ810 | 1000 | 8.0 | 110 | 170 | 1.0 | 4.0 | 5.0 | 1000 | |
| 8.0A Glass Passivated Bridge Rectifiers / GBU    | | | | | | | | | |
| GBU8005 | 50 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 50 | |
| GBU801 | 100 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 100 | |
| GBU802 | 200 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 200 | |
| GBU804 | 400 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 400 | |
| GBU806 | 600 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 600 | |
| GBU808 | 800 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 800 | |
| GBU810 | 1000 | 8.0 | 100 | 200 | 1.0 | 4.0 | 5.0 | 1000 | |
| 8.0A Bridge Rectifiers / PBPC-8   | | | | | | | | | |
| PBPC801 | 50 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 50 | |
| PBPC802 | 100 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 100 | |
| PBPC803 | 200 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 200 | |
| PBPC804 | 400 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 400 | |
| PBPC805 | 600 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 600 | |
| PBPC806 | 800 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 800 | |
| PBPC807 | 1000 | 8.0 | 50 | 125 | 1.1 | 4.0 | 10 | 1000 | |





(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|--|---------------------------------|------------------------------------|-----|-------------------------------------|----------------------|-----|--------------------------|------|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | µA | V |
| 10A Glass Passivated Bridge Rectifiers / GBJ   | | | | | | | | |
| GBJ10005 | 50 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 50 |
| GBJ1001 | 100 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 100 |
| GBJ1002 | 200 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 200 |
| GBJ1004 | 400 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 400 |
| GBJ1006 | 600 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 600 |
| GBJ1008 | 800 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 800 |
| GBJ1010 | 1000 | 10 | 110 | 170 | 1.05 | 5.0 | 10 | 1000 |
| 10A Glass Passivated Bridge Rectifiers / GBU   NEW | | | | | | | | |
| GBU10005 | 50 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 50 |
| GBU1001 | 100 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 100 |
| GBU1002 | 200 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 200 |
| GBU1004 | 400 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 400 |
| GBU1006 | 600 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 600 |
| GBU1008 | 800 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 800 |
| GBU1010 | 1000 | 10 | 100 | 220 | 1.0 | 5.0 | 5.0 | 1000 |
| 10A Bridge Rectifiers / PBPC-8   | | | | | | | | |
| PBPC1001 | 50 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 50 |
| PBPC1002 | 100 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 100 |
| PBPC1003 | 200 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 200 |
| PBPC1004 | 400 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 400 |
| PBPC1005 | 600 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 600 |
| PBPC1006 | 800 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 800 |
| PBPC1007 | 1000 | 10 | 110 | 170 | 1.0 | 4.0 | 5.0 | 1000 |
| 15A Glass Passivated Bridge Rectifiers / GBJ   | | | | | | | | |
| GBJ15005 | 50 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 50 |
| GBJ1501 | 100 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 100 |
| GBJ1502 | 200 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 200 |
| GBJ1504 | 400 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 400 |
| GBJ1506 | 600 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 600 |
| GBJ1508 | 800 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 800 |
| GBJ1510 | 1000 | 15 | 100 | 240 | 1.05 | 7.5 | 10 | 1000 |
| 15A Glass Passivated Bridge Rectifiers / GBPC   | | | | | | | | |
| GBPC15005 | 50 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 50 |
| GBPC1501 | 100 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 100 |
| GBPC1502 | 200 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 200 |
| GBPC1504 | 400 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 400 |
| GBPC1506 | 600 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 600 |
| GBPC1508 | 800 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 800 |
| GBPC1510 | 1000 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 1000 |

(†) Reference product datasheet for specific test conditions.

| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | | |
|--|---------------------------------|------------------------------------|-----|-------------------------------------|----------------------|------|--------------------------|---|---|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | | |
| | V | A | °C | A | V | A | µA | V | |
| 15A Glass Passivated Bridge Rectifiers / GBPC-W | | | | | | | |  |  |
| GBPC15005W | 50 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 50 | |
| GBPC1501W | 100 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 100 | |
| GBPC1502W | 200 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 200 | |
| GBPC1504W | 400 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 400 | |
| GBPC1506W | 600 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 600 | |
| GBPC1508W | 800 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 800 | |
| GBPC1510W | 1000 | 15 | 70 | 300 | 1.1 | 7.5 | 5.0 | 1000 | |
| 20A Glass Passivated Bridge Rectifiers / GBJ | | | | | | | |  |  |
| GBJ20005 | 50 | 20 | 110 | 240 | 1.05 | 10 | 10 | 50 | |
| GBJ2001 | 100 | 20 | 110 | 240 | 1.05 | 10 | 10 | 100 | |
| GBJ2002 | 200 | 20 | 110 | 240 | 1.05 | 10 | 10 | 200 | |
| GBJ2004 | 400 | 20 | 110 | 240 | 1.05 | 10 | 10 | 400 | |
| GBJ2006 | 600 | 20 | 110 | 240 | 1.05 | 10 | 10 | 600 | |
| GBJ2008 | 800 | 20 | 110 | 240 | 1.05 | 10 | 10 | 800 | |
| GBJ2010 | 1000 | 20 | 110 | 240 | 1.05 | 10 | 10 | 1000 | |
| 25A Glass Passivated Bridge Rectifiers / GBJ | | | | | | | |  |  |
| GBJ25005 | 50 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 50 | |
| GBJ2501 | 100 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 100 | |
| GBJ2502 | 200 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 200 | |
| GBJ2504 | 400 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 400 | |
| GBJ2506 | 600 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 600 | |
| GBJ2508 | 800 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 800 | |
| GBJ2510 | 1000 | 25 | 100 | 350 | 1.05 | 12.5 | 10 | 1000 | |
| 25A Glass Passivated Bridge Rectifiers / GBPC | | | | | | | |  |  |
| GBPC25005 | 50 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 50 | |
| GBPC2501 | 100 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 100 | |
| GBPC2502 | 200 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 200 | |
| GBPC2504 | 400 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 400 | |
| GBPC2506 | 600 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 600 | |
| GBPC2508 | 800 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 800 | |
| GBPC2510 | 1000 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 1000 | |
| 25A Glass Passivated Bridge Rectifiers / GBPC-W | | | | | | | |  |  |
| GBPC25005W | 50 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 50 | |
| GBPC2501W | 100 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 100 | |
| GBPC2502W | 200 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 200 | |
| GBPC2504W | 400 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 400 | |
| GBPC2506W | 600 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 600 | |
| GBPC2508W | 800 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 800 | |
| GBPC2510W | 1000 | 25 | 60 | 300 | 1.1 | 12.5 | 5.0 | 1000 | |

(†) Reference product datasheet for specific test conditions.

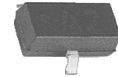
| Type Number | Peak Repetitive Reverse Voltage | Max. Average Rectified Current (†) | | Max. Peak Forward Surge Current (†) | Forward Voltage Drop | | Max. Reverse Current (†) | |
|--|---------------------------------|------------------------------------|----|-------------------------------------|----------------------|------|---|---|
| | V_{RRM} | $I_O @ T_A$ | | I_{FSM} | $V_F @ I_F$ | | $I_R @ V_R$ | |
| | V | A | °C | A | V | A | μA | V |
| 35A Glass Passivated Bridge Rectifiers / GBPC | | | | | | |  |  |
| GBPC35005 | 50 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 50 |
| GBPC3501 | 100 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 100 |
| GBPC3502 | 200 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 200 |
| GBPC3504 | 400 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 400 |
| GBPC3506 | 600 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 600 |
| GBPC3508 | 800 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 800 |
| GBPC3510 | 1000 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 1000 |
| 35A Glass Passivated Bridge Rectifiers / GBPC-W | | | | | | |  |  |
| GBPC35005W | 50 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 50 |
| GBPC3501W | 100 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 100 |
| GBPC3502W | 200 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 200 |
| GBPC3504W | 400 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 400 |
| GBPC3506W | 600 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 600 |
| GBPC3508W | 800 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 800 |
| GBPC3510W | 1000 | 35 | 50 | 400 | 1.1 | 17.5 | 5.0 | 1000 |

(†) Reference product datasheet for specific test conditions.

Zener Diodes

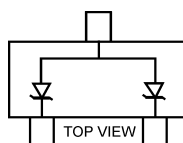
| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | Typical Temperature Coefficient | Min. Reverse Voltage |
|-------------|--|-------|---|---|---------------------------------|---|
| | V _Z @ I _{ZT} = 5.0mA | | Z _{ZT} @ I _{ZT} = 5.0mA | Z _{ZK} @ I _{ZK} = 1.0mA | T _C | V _R @ I _R = 0.1μA |
| | Min V | Max V | Ω | Ω | % / °C | V |

300mW Zener Diodes (DUAL Common Anode) / SOT-23



| | | | | | | |
|----------|------|------|-----|-----|--------|------|
| AZ23C2V7 | 2.5 | 2.9 | 83 | 500 | -0.065 | — |
| AZ23C3V0 | 2.8 | 3.2 | 95 | 500 | -0.060 | — |
| AZ23C3V3 | 3.1 | 3.5 | 95 | 500 | -0.055 | — |
| AZ23C3V6 | 3.4 | 3.8 | 95 | 500 | -0.055 | — |
| AZ23C3V9 | 3.7 | 4.1 | 95 | 500 | -0.050 | — |
| AZ23C4V3 | 4.0 | 4.6 | 95 | 500 | -0.035 | — |
| AZ23C4V7 | 4.4 | 5.0 | 78 | 500 | -0.015 | — |
| AZ23C5V1 | 4.8 | 5.4 | 60 | 480 | +0.005 | 0.8 |
| AZ23C5V6 | 5.2 | 6.0 | 40 | 400 | +0.020 | 1.0 |
| AZ23C6V2 | 5.8 | 6.6 | 10 | 200 | +0.030 | 2.0 |
| AZ23C6V8 | 6.4 | 7.2 | 8.0 | 150 | +0.045 | 3.0 |
| AZ23C7V5 | 7.0 | 7.9 | 7.0 | 50 | +0.050 | 5.0 |
| AZ23C8V2 | 7.7 | 8.7 | 7.0 | 50 | +0.055 | 6.0 |
| AZ23C9V1 | 8.5 | 9.6 | 10 | 50 | +0.065 | 7.0 |
| AZ23C10 | 9.4 | 10.6 | 15 | 70 | +0.065 | 7.5 |
| AZ23C11 | 10.4 | 11.6 | 20 | 70 | +0.070 | 8.5 |
| AZ23C12 | 11.4 | 12.7 | 20 | 90 | +0.075 | 9.0 |
| AZ23C13 | 12.4 | 14.1 | 25 | 110 | +0.080 | 10.0 |
| AZ23C15 | 13.8 | 15.6 | 30 | 110 | +0.080 | 11.0 |
| AZ23C16 | 15.3 | 17.1 | 40 | 170 | +0.090 | 12.0 |
| AZ23C18 | 16.8 | 19.1 | 50 | 170 | +0.090 | 14.0 |
| AZ23C20 | 18.8 | 21.2 | 50 | 220 | +0.090 | 15.0 |
| AZ23C22 | 20.8 | 23.3 | 55 | 220 | +0.090 | 17.0 |
| AZ23C24 | 22.8 | 25.6 | 80 | 220 | +0.090 | 18.0 |
| AZ23C27 | 25.1 | 28.9 | 80 | 250 | +0.090 | 20.0 |
| AZ23C30 | 28 | 32 | 80 | 250 | +0.090 | 22.5 |
| AZ23C33 | 31 | 35 | 80 | 250 | +0.090 | 25.0 |
| AZ23C36 | 34 | 38 | 90 | 250 | +0.090 | 27.0 |
| AZ23C39 | 37 | 41 | 90 | 300 | +0.110 | 29.0 |
| AZ23C43 | 40 | 46 | 100 | 700 | +0.110 | 32.0 |
| AZ23C47 | 44 | 50 | 100 | 750 | +0.110 | 35.0 |
| AZ23C51 | 48 | 54 | 100 | 750 | +0.110 | 38.0 |

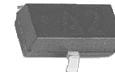
1. Tested with I_{ZT} current pulses. Pulse width = 5.0ms.



Pin Configuration

| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----------------------|----|-------------------|----|---------------------------------|------------------------------|---|
| | $V_Z @ I_{ZT}$ | | $Z_{ZT} @ I_{ZT}$ | | $Z_{ZK} @ I_{ZK}$ | | T_C | $I_R @ V_R$ | |
| | Min V | Max V | Ω | mA | Ω | mA | % / °C | μA | V |

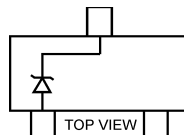
350mW Zener Diodes (Single) / SOT-23



| | | | | | | | | | |
|------------|------|------|-----|-----|-----|-----|--------|------|----------------------|
| BZX84C2V7* | 2.5 | 2.9 | 100 | 5.0 | 600 | 1.0 | -0.065 | 20 | 1.0 |
| BZX84C3V0 | 2.8 | 3.2 | 100 | 5.0 | 600 | 1.0 | -0.060 | 10 | 1.0 |
| BZX84C3V3* | 3.1 | 3.5 | 95 | 5.0 | 600 | 1.0 | -0.055 | 5.0 | 1.0 |
| BZX84C3V6 | 3.4 | 3.8 | 95 | 5.0 | 600 | 1.0 | -0.055 | 5.0 | 1.0 |
| BZX84C3V9* | 3.7 | 4.1 | 90 | 5.0 | 600 | 1.0 | -0.050 | 3.0 | 1.0 |
| BZX84C4V3* | 4.0 | 4.6 | 90 | 5.0 | 600 | 1.0 | -0.035 | 3.0 | 1.0 |
| BZX84C4V7* | 4.4 | 5.0 | 80 | 5.0 | 500 | 1.0 | -0.015 | 4.0 | 2.0 |
| BZX84C5V1* | 4.8 | 5.4 | 60 | 5.0 | 480 | 1.0 | +0.005 | 2.0 | 2.0 |
| BZX84C5V6* | 5.2 | 6.0 | 40 | 5.0 | 400 | 1.0 | +0.020 | 1.0 | 2.0 |
| BZX84C6V2* | 5.8 | 6.6 | 10 | 5.0 | 150 | 1.0 | +0.030 | 3.0 | 4.0 |
| BZX84C6V8* | 6.4 | 7.2 | 15 | 5.0 | 80 | 1.0 | +0.045 | 2.0 | 4.0 |
| BZX84C7V5* | 7.0 | 7.9 | 15 | 5.0 | 80 | 1.0 | +0.050 | 1.0 | 5.0 |
| BZX84C8V2* | 7.7 | 8.7 | 15 | 5.0 | 80 | 1.0 | +0.055 | 0.7 | 5.0 |
| BZX84C9V1 | 8.5 | 9.6 | 15 | 5.0 | 100 | 1.0 | +0.065 | 0.5 | 6.0 |
| BZX84C10* | 9.4 | 10.6 | 20 | 5.0 | 150 | 1.0 | +0.065 | 0.2 | 7.0 |
| BZX84C11 | 10.4 | 11.6 | 20 | 5.0 | 150 | 1.0 | +0.070 | 0.1 | 8.0 |
| BZX84C12* | 11.4 | 12.7 | 25 | 5.0 | 150 | 1.0 | +0.075 | 0.1 | 8.0 |
| BZX84C13* | 12.4 | 14.1 | 30 | 5.0 | 170 | 1.0 | +0.080 | 0.1 | 8.0 |
| BZX84C15* | 13.8 | 15.6 | 30 | 5.0 | 200 | 1.0 | +0.080 | 0.05 | 0.7V _{Znom} |
| BZX84C16 | 15.3 | 17.1 | 40 | 5.0 | 200 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C18* | 16.8 | 19.1 | 45 | 5.0 | 225 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C20* | 18.8 | 21.2 | 55 | 5.0 | 225 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C22 | 20.8 | 23.3 | 55 | 5.0 | 250 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C24* | 22.8 | 25.6 | 70 | 5.0 | 250 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C27* | 25.1 | 28.9 | 80 | 2.0 | 300 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C30 | 28 | 32 | 80 | 2.0 | 300 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C33* | 31 | 35 | 80 | 2.0 | 325 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C36* | 34 | 38 | 90 | 2.0 | 350 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C39 | 37 | 41 | 130 | 2.0 | 350 | 0.5 | +0.110 | 0.05 | 0.7V _{Znom} |
| BZX84C43 | 40 | 46 | 150 | 2.0 | 375 | 0.5 | +0.110 | 0.05 | 0.7V _{Znom} |
| BZX84C47 | 44 | 50 | 170 | 2.0 | 375 | 0.5 | +0.110 | 0.05 | 0.7V _{Znom} |
| BZX84C51 | 48 | 54 | 180 | 2.0 | 400 | 0.5 | +0.110 | 0.05 | 0.7V _{Znom} |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.

(*) Preferred Part.



Pin Configuration

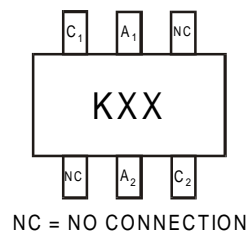
| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----------------------|----|-------------------|----|---------------------------------|------------------------------|---|
| | $V_Z @ I_{ZT}$ | | $Z_{ZT} @ I_{ZT}$ | | $Z_{ZK} @ I_{ZK}$ | | T_C | $I_R @ V_R$ | |
| | Min V | Max V | Ω | mA | Ω | mA | % / °C | μA | V |



200mW Zener Diodes (DUAL, Isolated) / SOT-363 NEW

| | | | | | | | | | |
|------------|------|------|-----|-----|-----|-----|--------|------|----------------------|
| BZX84C2V7S | 2.5 | 2.9 | 100 | 5.0 | 600 | 1.0 | -0.065 | 20 | 1.0 |
| BZX84C3V0S | 2.8 | 3.2 | 100 | 5.0 | 600 | 1.0 | -0.060 | 10 | 1.0 |
| BZX84C3V3S | 3.1 | 3.5 | 95 | 5.0 | 600 | 1.0 | -0.055 | 5.0 | 1.0 |
| BZX84C3V6S | 3.4 | 3.8 | 95 | 5.0 | 600 | 1.0 | -0.055 | 5.0 | 1.0 |
| BZX84C3V9S | 3.7 | 4.1 | 90 | 5.0 | 600 | 1.0 | -0.050 | 3.0 | 1.0 |
| BZX84C4V3S | 4.0 | 4.6 | 90 | 5.0 | 600 | 1.0 | -0.035 | 3.0 | 1.0 |
| BZX84C4V7S | 4.4 | 5.0 | 80 | 5.0 | 500 | 1.0 | -0.015 | 4.0 | 2.0 |
| BZX84C5V1S | 4.8 | 5.4 | 60 | 5.0 | 480 | 1.0 | +0.005 | 2.0 | 2.0 |
| BZX84C5V6S | 5.2 | 6.0 | 40 | 5.0 | 400 | 1.0 | +0.020 | 1.0 | 2.0 |
| BZX84C6V2S | 5.8 | 6.6 | 10 | 5.0 | 150 | 1.0 | +0.030 | 3.0 | 4.0 |
| BZX84C6V8S | 6.4 | 7.2 | 15 | 5.0 | 80 | 1.0 | +0.045 | 2.0 | 4.0 |
| BZX84C7V5S | 7.0 | 7.9 | 15 | 5.0 | 80 | 1.0 | +0.050 | 1.0 | 5.0 |
| BZX84C8V2S | 7.7 | 8.7 | 15 | 5.0 | 80 | 1.0 | +0.055 | 0.7 | 5.0 |
| BZX84C9V1S | 8.5 | 9.6 | 15 | 5.0 | 100 | 1.0 | +0.065 | 0.5 | 6.0 |
| BZX84C10S | 9.4 | 10.6 | 20 | 5.0 | 150 | 1.0 | +0.065 | 0.2 | 7.0 |
| BZX84C11S | 10.4 | 11.6 | 20 | 5.0 | 150 | 1.0 | +0.070 | 0.1 | 8.0 |
| BZX84C12S | 11.4 | 12.7 | 25 | 5.0 | 150 | 1.0 | +0.075 | 0.1 | 8.0 |
| BZX84C13S | 12.4 | 14.1 | 30 | 5.0 | 170 | 1.0 | +0.080 | 0.1 | 8.0 |
| BZX84C15S | 13.8 | 15.6 | 30 | 5.0 | 200 | 1.0 | +0.080 | 0.05 | 0.7V _{Znom} |
| BZX84C16S | 15.3 | 17.1 | 40 | 5.0 | 200 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C18S | 16.8 | 19.1 | 45 | 5.0 | 225 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C20S | 18.8 | 21.2 | 55 | 5.0 | 225 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C22S | 20.8 | 23.3 | 55 | 5.0 | 250 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C24S | 22.8 | 25.6 | 70 | 5.0 | 250 | 1.0 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C27S | 25.1 | 28.9 | 80 | 2.0 | 300 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C30S | 28.0 | 32.0 | 80 | 2.0 | 300 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C33S | 31.0 | 35.0 | 80 | 2.0 | 325 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C36S | 34.0 | 38.0 | 90 | 2.0 | 350 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |
| BZX84C39S | 37.0 | 41.0 | 130 | 2.0 | 350 | 0.5 | +0.090 | 0.05 | 0.7V _{Znom} |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.



Pin Configuration

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance | | | | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|-----------------------------------|----|-----------------------------------|----|---------------------------------|---|
| | V _Z @ I _{ZT} | | | Z _{VT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | I _R @ V _R | |
| | Nom V | Min V | Max V | Ω | mA | Ω | mA | μA | V |

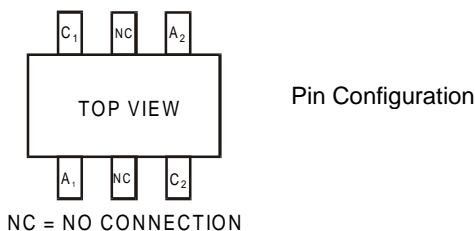
200mW Zener Diodes (DUAL, Isolated) / SOT-363 (continued)



NEW




| | | | | | | | | | |
|------------|-----|-------|-------|-----|-----|------|------|-----|-----|
| MMBZ5221BS | 2.4 | 2.28 | 2.52 | 30 | 20 | 1200 | 0.25 | 100 | 1.0 |
| MMBZ5222BS | 2.5 | 2.38 | 2.63 | 30 | 20 | 1250 | 0.25 | 100 | 1.0 |
| MMBZ5223BS | 2.7 | 2.57 | 2.84 | 30 | 20 | 1300 | 0.25 | 75 | 1.0 |
| MMBZ5225BS | 3.0 | 2.85 | 3.15 | 30 | 20 | 1600 | 0.25 | 50 | 1.0 |
| MMBZ5226BS | 3.3 | 3.14 | 3.47 | 28 | 20 | 1600 | 0.25 | 25 | 1.0 |
| MMBZ5227BS | 3.6 | 3.42 | 3.78 | 24 | 20 | 1700 | 0.25 | 15 | 1.0 |
| MMBZ5228BS | 3.9 | 3.71 | 4.10 | 23 | 20 | 1900 | 0.25 | 10 | 1.0 |
| MMBZ5229BS | 4.3 | 4.09 | 4.52 | 22 | 20 | 2000 | 0.25 | 5.0 | 1.0 |
| MMBZ5230BS | 4.7 | 4.47 | 4.94 | 19 | 20 | 1900 | 0.25 | 5.0 | 2.0 |
| MMBZ5231BS | 5.1 | 4.85 | 5.36 | 17 | 20 | 2000 | 0.25 | 5.0 | 2.0 |
| MMBZ5232BS | 5.6 | 5.32 | 5.88 | 11 | 20 | 1900 | 0.25 | 5.0 | 3.0 |
| MMBZ5234BS | 6.2 | 5.89 | 6.51 | 7.0 | 20 | 1600 | 0.25 | 5.0 | 4.0 |
| MMBZ5235BS | 6.8 | 6.46 | 7.14 | 5.0 | 20 | 1600 | 0.25 | 3.0 | 5.0 |
| MMBZ5236BS | 7.5 | 7.13 | 7.88 | 6.0 | 20 | 1000 | 0.25 | 3.0 | 6.0 |
| MMBZ5237BS | 8.2 | 7.79 | 8.61 | 8.0 | 20 | 750 | 0.25 | 3.0 | 6.5 |
| MMBZ5239BS | 9.1 | 8.65 | 9.56 | 10 | 20 | 500 | 0.25 | 3.0 | 7.0 |
| MMBZ5240BS | 10 | 9.50 | 10.50 | 17 | 20 | 500 | 0.25 | 3.0 | 8.0 |
| MMBZ5241BS | 11 | 10.45 | 11.55 | 22 | 20 | 600 | 0.25 | 2.0 | 8.4 |
| MMBZ5242BS | 12 | 11.40 | 12.60 | 30 | 20 | 600 | 0.25 | 1.0 | 9.1 |
| MMBZ5243BS | 13 | 12.35 | 13.65 | 13 | 9.5 | 600 | 0.25 | 0.5 | 9.9 |
| MMBZ5245BS | 15 | 14.25 | 15.75 | 16 | 8.5 | 600 | 0.25 | 0.1 | 11 |
| MMBZ5246BS | 16 | 15.20 | 16.80 | 17 | 7.8 | 600 | 0.25 | 0.1 | 12 |
| MMBZ5248BS | 18 | 17.10 | 18.90 | 21 | 7.0 | 600 | 0.25 | 0.1 | 14 |
| MMBZ5250BS | 20 | 19.00 | 21.00 | 25 | 6.2 | 600 | 0.25 | 0.1 | 15 |
| MMBZ5251BS | 22 | 20.90 | 23.10 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMBZ5252BS | 24 | 22.80 | 25.20 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMBZ5254BS | 27 | 25.65 | 28.35 | 41 | 5.0 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5255BS | 28 | 26.60 | 29.40 | 44 | 4.5 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5256BS | 30 | 28.50 | 31.50 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMBZ5257BS | 33 | 31.35 | 34.65 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMBZ5258BS | 36 | 34.20 | 37.80 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMBZ5259BS | 39 | 37.05 | 40.95 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.



| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | | | Typical Temperature Coefficient | Min. Reverse Leakage Current |
|---|----------------------------------|-------|----------------------|-----|-------------------|-----|---------------------------------|------------------------------|
| | $V_Z @ I_{ZT}$ | | $Z_{ZT} @ I_{ZT}$ | | $Z_{ZK} @ I_{ZK}$ | | T_C | $V_R @ I_R = 0.1\mu A$ |
| | Min V | Max V | Ω | mA | Ω | mA | % / °C | V |
| 200mW Zener Diodes / SOD-323   | | | | | | | | |
| BZT52C2V7S | 2.5 | 2.9 | 83 | 5.0 | 500 | 1.0 | -0.065 | — |
| BZT52C3V0S | 2.8 | 3.2 | 95 | 5.0 | 500 | 1.0 | -0.060 | — |
| BZT52C3V3S | 3.1 | 3.5 | 95 | 5.0 | 500 | 1.0 | -0.055 | — |
| BZT52C3V6S | 3.4 | 3.8 | 95 | 5.0 | 500 | 1.0 | -0.055 | — |
| BZT52C3V9S | 3.7 | 4.1 | 95 | 5.0 | 500 | 1.0 | -0.050 | — |
| BZT52C4V3S | 4.0 | 4.6 | 95 | 5.0 | 500 | 1.0 | -0.035 | — |
| BZT52C4V7S | 4.4 | 5.0 | 78 | 5.0 | 500 | 1.0 | -0.015 | — |
| BZT52C5V1S | 4.8 | 5.4 | 60 | 5.0 | 480 | 1.0 | +0.005 | 0.8 |
| BZT52C5V6S | 5.2 | 6.0 | 40 | 5.0 | 400 | 1.0 | +0.020 | 1.0 |
| BZT52C6V2S | 5.8 | 6.6 | 10 | 5.0 | 200 | 1.0 | +0.030 | 2.0 |
| BZT52C6V8S | 6.4 | 7.2 | 8.0 | 5.0 | 150 | 1.0 | +0.045 | 3.0 |
| BZT52C7V5S | 7.0 | 7.9 | 7.0 | 5.0 | 50 | 1.0 | +0.050 | 5.0 |
| BZT52C8V2S | 7.7 | 8.7 | 7.0 | 5.0 | 50 | 1.0 | +0.055 | 6.0 |
| BZT52C9V1S | 8.5 | 9.6 | 10 | 5.0 | 50 | 1.0 | +0.065 | 7.0 |
| BZT52C10S | 9.4 | 10.6 | 15 | 5.0 | 70 | 1.0 | -0.065 | 7.5 |
| BZT52C11S | 10.4 | 11.6 | 20 | 5.0 | 70 | 1.0 | +0.070 | 8.5 |
| BZT52C12S | 11.4 | 12.7 | 20 | 5.0 | 90 | 1.0 | +0.075 | 9.0 |
| BZT52C13S | 12.4 | 14.1 | 25 | 5.0 | 110 | 1.0 | +0.080 | 10 |
| BZT52C15S | 13.8 | 15.6 | 30 | 5.0 | 110 | 1.0 | +0.080 | 11 |
| BZT52C16S | 15.3 | 17.1 | 40 | 5.0 | 170 | 1.0 | +0.090 | 12 |
| BZT52C18S | 16.8 | 19.1 | 50 | 5.0 | 170 | 1.0 | +0.090 | 14 |
| BZT52C20S | 18.8 | 21.2 | 50 | 5.0 | 220 | 1.0 | +0.090 | 15 |
| BZT52C22S | 20.8 | 23.3 | 55 | 5.0 | 220 | 1.0 | +0.090 | 17 |
| BZT52C24S | 22.8 | 25.6 | 80 | 5.0 | 220 | 1.0 | +0.090 | 18 |
| BZT52C27S | 25.1 | 28.9 | 80 | 5.0 | 250 | 1.0 | +0.090 | 20 |
| BZT52C30S | 28 | 32 | 80 | 5.0 | 250 | 1.0 | +0.090 | 22.5 |
| BZT52C33S | 31 | 35 | 80 | 5.0 | 250 | 1.0 | +0.090 | 25 |
| BZT52C36S | 34 | 38 | 90 | 5.0 | 250 | 1.0 | +0.090 | 27 |
| BZT52C39S | 37 | 41 | 90 | 5.0 | 300 | 1.0 | +0.110 | 29 |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance | | | | Max. Reverse Leakage Current | |
|--|----------------------------------|-------|-------|-----------------------------------|-----|-----------------------------------|------|---------------------------------|-----|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | I _R @ V _R | |
| | Nom V | Min V | Max V | Ω | mA | Ω | mA | μA | V |
| 200mW Zener Diodes / SOD-323  | | | | | | | | | |
| | | | | NEW | | | | | |
| MMSZ5221BS | 2.4 | 2.28 | 2.52 | 30 | 20 | 1200 | 0.25 | 100 | 1.0 |
| MMSZ5222BS | 2.5 | 2.38 | 2.63 | 30 | 20 | 1250 | 0.25 | 100 | 1.0 |
| MMSZ5223BS | 2.7 | 2.57 | 2.84 | 30 | 20 | 1300 | 0.25 | 75 | 1.0 |
| MMSZ5225BS | 3.0 | 2.85 | 3.15 | 30 | 20 | 1600 | 0.25 | 50 | 1.0 |
| MMSZ5226BS | 3.3 | 3.14 | 3.47 | 28 | 20 | 1600 | 0.25 | 25 | 1.0 |
| MMSZ5227BS | 3.6 | 3.42 | 3.78 | 24 | 20 | 1700 | 0.25 | 15 | 1.0 |
| MMSZ5228BS | 3.9 | 3.71 | 4.10 | 23 | 20 | 1900 | 0.25 | 10 | 1.0 |
| MMSZ5229BS | 4.3 | 4.09 | 4.52 | 22 | 20 | 2000 | 0.25 | 5.0 | 1.0 |
| MMSZ5230BS | 4.7 | 4.47 | 4.94 | 19 | 20 | 1900 | 0.25 | 5.0 | 2.0 |
| MMSZ5231BS | 5.1 | 4.85 | 5.36 | 17 | 20 | 1600 | 0.25 | 5.0 | 2.0 |
| MMSZ5232BS | 5.6 | 5.32 | 5.88 | 11 | 20 | 1600 | 0.25 | 5.0 | 3.0 |
| MMSZ5234BS | 6.2 | 5.89 | 6.51 | 7.0 | 20 | 1000 | 0.25 | 5.0 | 4.0 |
| MMSZ5235BS | 6.8 | 6.46 | 7.14 | 5.0 | 20 | 750 | 0.25 | 3.0 | 5.0 |
| MMSZ5236BS | 7.5 | 7.13 | 7.88 | 6.0 | 20 | 500 | 0.25 | 3.0 | 6.0 |
| MMSZ5237BS | 8.2 | 7.79 | 8.61 | 8.0 | 20 | 500 | 0.25 | 3.0 | 6.5 |
| MMSZ5239BS | 9.1 | 8.65 | 9.56 | 10 | 20 | 600 | 0.25 | 3.0 | 7.0 |
| MMSZ5240BS | 10 | 9.50 | 10.50 | 17 | 20 | 600 | 0.25 | 3.0 | 8.0 |
| MMSZ5241BS | 11 | 10.45 | 11.55 | 22 | 20 | 600 | 0.25 | 2.0 | 8.4 |
| MMSZ5242BS | 12 | 11.40 | 12.60 | 30 | 20 | 600 | 0.25 | 1.0 | 9.1 |
| MMSZ5243BS | 13 | 12.35 | 13.65 | 13 | 9.5 | 600 | 0.25 | 0.5 | 9.9 |
| MMSZ5245BS | 15 | 14.25 | 15.75 | 16 | 8.5 | 600 | 0.25 | 0.1 | 11 |
| MMSZ5246BS | 16 | 15.20 | 16.80 | 17 | 7.8 | 600 | 0.25 | 0.1 | 12 |
| MMSZ5248BS | 18 | 17.10 | 18.90 | 21 | 7.0 | 600 | 0.25 | 0.1 | 14 |
| MMSZ5250BS | 20 | 19.00 | 21.00 | 25 | 6.2 | 600 | 0.25 | 0.1 | 15 |
| MMSZ5251BS | 22 | 20.90 | 23.10 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMSZ5252BS | 24 | 22.80 | 25.20 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMSZ5254BS | 27 | 25.65 | 28.35 | 41 | 5.0 | 600 | 0.25 | 0.1 | 21 |
| MMSZ5255BS | 28 | 26.60 | 29.40 | 44 | 4.5 | 600 | 0.25 | 0.1 | 21 |
| MMSZ5256BS | 30 | 28.50 | 31.50 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMSZ5257BS | 33 | 31.35 | 34.65 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMSZ5258BS | 36 | 34.20 | 37.80 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMSZ5259BS | 39 | 37.05 | 40.95 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.

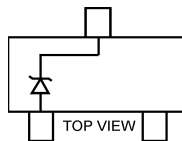
| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | | | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----------------------|----|-------------------|----|------------------------------|---|
| | $V_Z @ I_{ZT}$ | | $Z_{ZT} @ I_{ZT}$ | | $Z_{ZK} @ I_{ZK}$ | | $I_R @ V_R$ | |
| | Min V | Max V | Ω | mA | Ω | mA | μA | V |

200mW Zener Diodes / SOT-323 NEW



| | | | | | | | | |
|------------|-------|-------|-----|-----|-----|------|------|----------------------|
| BZX84C2V7W | 2.57 | 2.84 | 100 | 5.0 | 600 | 0.25 | 20 | 1.0 |
| BZX84C3V0W | 2.85 | 3.15 | 100 | 5.0 | 600 | 0.25 | 10 | 1.0 |
| BZX84C3V3W | 3.14 | 3.47 | 95 | 5.0 | 600 | 0.25 | 5.0 | 1.0 |
| BZX84C3V6W | 3.42 | 3.78 | 95 | 5.0 | 600 | 0.25 | 5.0 | 1.0 |
| BZX84C3V9W | 3.71 | 4.10 | 90 | 5.0 | 600 | 0.25 | 3.0 | 1.0 |
| BZX84C4V3W | 4.09 | 4.52 | 90 | 5.0 | 600 | 0.25 | 3.0 | 1.0 |
| BZX84C4V7W | 4.47 | 4.94 | 80 | 5.0 | 500 | 0.25 | 4.0 | 2.0 |
| BZX84C5V1W | 4.85 | 5.36 | 60 | 5.0 | 480 | 0.25 | 2.0 | 2.0 |
| BZX84C5V6W | 5.32 | 5.88 | 40 | 5.0 | 400 | 0.25 | 1.0 | 2.0 |
| BZX84C6V2W | 5.89 | 6.51 | 10 | 5.0 | 150 | 0.25 | 3.0 | 4.0 |
| BZX84C6V8W | 6.46 | 7.14 | 15 | 5.0 | 80 | 0.25 | 2.0 | 4.0 |
| BZX84C7V5W | 7.13 | 7.88 | 15 | 5.0 | 80 | 0.25 | 1.0 | 5.0 |
| BZX84C8V2W | 7.79 | 8.61 | 15 | 5.0 | 80 | 0.25 | 0.7 | 5.0 |
| BZX84C9V1W | 8.65 | 9.56 | 15 | 5.0 | 100 | 0.25 | 0.5 | 6.0 |
| BZX84C10W | 9.50 | 10.50 | 20 | 5.0 | 150 | 0.25 | 0.2 | 7.0 |
| BZX84C11W | 10.45 | 11.55 | 20 | 5.0 | 150 | 0.25 | 0.1 | 8.0 |
| BZX84C12W | 11.40 | 12.60 | 25 | 5.0 | 150 | 0.25 | 0.1 | 8.0 |
| BZX84C13W | 12.35 | 13.65 | 30 | 5.0 | 170 | 0.25 | 0.1 | 8.0 |
| BZX84C15W | 14.25 | 15.75 | 30 | 5.0 | 200 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C16W | 15.20 | 16.80 | 40 | 5.0 | 200 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C18W | 17.10 | 18.90 | 45 | 5.0 | 225 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C20W | 19.00 | 21.00 | 55 | 5.0 | 225 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C22W | 20.90 | 23.10 | 55 | 5.0 | 250 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C24W | 22.80 | 25.20 | 70 | 5.0 | 250 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C27W | 25.65 | 28.35 | 80 | 2.0 | 300 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C30W | 28.50 | 31.50 | 80 | 2.0 | 300 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C33W | 31.35 | 34.65 | 80 | 2.0 | 325 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C36W | 34.20 | 37.80 | 90 | 2.0 | 350 | 0.25 | 0.05 | 0.7V _{Znom} |
| BZX84C39W | 37.05 | 40.95 | 130 | 2.0 | 350 | 0.25 | 0.05 | 0.7V _{Znom} |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.



Pin Configuration

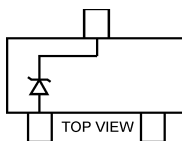
| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance | | | | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|-----------------------------------|----|-----------------------------------|----|---------------------------------|---|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | I _R @ V _R | |
| | Nom V | Min V | Max V | Ω | mA | Ω | mA | μA | V |

200mW Zener Diodes / SOT-323 NEW



| | | | | | | | | | |
|------------|-----|-------|-------|-----|-----|------|------|-----|-----|
| MMBZ5221BW | 2.4 | 2.28 | 2.52 | 30 | 20 | 1200 | 0.25 | 100 | 1.0 |
| MMBZ5222BW | 2.5 | 2.38 | 2.63 | 30 | 20 | 1250 | 0.25 | 100 | 1.0 |
| MMBZ5223BW | 2.7 | 2.57 | 2.84 | 30 | 20 | 1300 | 0.25 | 75 | 1.0 |
| MMBZ5225BW | 3.0 | 2.85 | 3.15 | 30 | 20 | 1600 | 0.25 | 50 | 1.0 |
| MMBZ5226BW | 3.3 | 3.14 | 3.47 | 28 | 20 | 1600 | 0.25 | 25 | 1.0 |
| MMBZ5227BW | 3.6 | 3.42 | 3.78 | 24 | 20 | 1700 | 0.25 | 15 | 1.0 |
| MMBZ5228BW | 3.9 | 3.71 | 4.10 | 23 | 20 | 1900 | 0.25 | 10 | 1.0 |
| MMBZ5229BW | 4.3 | 4.09 | 4.52 | 22 | 20 | 2000 | 0.25 | 5.0 | 1.0 |
| MMBZ5230BW | 4.7 | 4.47 | 4.94 | 19 | 20 | 1900 | 0.25 | 5.0 | 2.0 |
| MMBZ5231BW | 5.1 | 4.85 | 5.36 | 17 | 20 | 1600 | 0.25 | 5.0 | 2.0 |
| MMBZ5232BW | 5.6 | 5.32 | 5.88 | 11 | 20 | 1600 | 0.25 | 5.0 | 2.0 |
| MMBZ5234BW | 6.2 | 5.89 | 6.51 | 7.0 | 20 | 1000 | 0.25 | 5.0 | 4.0 |
| MMBZ5235BW | 6.8 | 6.46 | 7.14 | 5.0 | 20 | 750 | 0.25 | 3.0 | 4.0 |
| MMBZ5236BW | 7.5 | 7.13 | 7.88 | 6.0 | 20 | 500 | 0.25 | 3.0 | 5.0 |
| MMBZ5237BW | 8.2 | 7.79 | 8.61 | 8.0 | 20 | 500 | 0.25 | 3.0 | 5.0 |
| MMBZ5239BW | 9.1 | 8.65 | 9.56 | 10 | 20 | 600 | 0.25 | 3.0 | 6.0 |
| MMBZ5240BW | 10 | 9.50 | 10.50 | 17 | 20 | 600 | 0.25 | 3.0 | 7.0 |
| MMBZ5241BW | 11 | 10.45 | 11.55 | 22 | 20 | 600 | 0.25 | 2.0 | 8.0 |
| MMBZ5242BW | 12 | 11.40 | 12.60 | 30 | 20 | 600 | 0.25 | 1.0 | 8.4 |
| MMBZ5243BW | 13 | 12.35 | 13.65 | 13 | 9.5 | 600 | 0.25 | 0.5 | 9.1 |
| MMBZ5245BW | 15 | 14.25 | 15.75 | 16 | 8.5 | 600 | 0.25 | 0.1 | 9.9 |
| MMBZ5246BW | 16 | 15.20 | 16.80 | 17 | 7.8 | 600 | 0.25 | 0.1 | 11 |
| MMBZ5248BW | 18 | 17.10 | 18.90 | 21 | 7.0 | 600 | 0.25 | 0.1 | 14 |
| MMBZ5250BW | 20 | 19.00 | 21.00 | 25 | 6.2 | 600 | 0.25 | 0.1 | 15 |
| MMBZ5251BW | 22 | 20.90 | 23.10 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMBZ5252BW | 24 | 22.80 | 25.20 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMBZ5254BW | 27 | 25.65 | 28.35 | 41 | 5.0 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5255BW | 28 | 26.60 | 29.40 | 44 | 4.5 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5256BW | 30 | 28.50 | 31.50 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMBZ5257BW | 33 | 31.35 | 34.65 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMBZ5258BW | 36 | 34.20 | 37.80 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMBZ5259BW | 39 | 37.05 | 40.95 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |

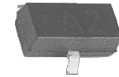
1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.



Pin Configuration

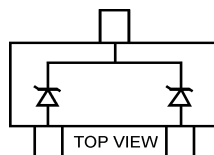
| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | Typical Temperature Coefficient | Min. Reverse Voltage |
|-------------|----------------------------------|-------|----------------------------------|----------------------------------|---------------------------------|------------------------------|
| | $V_Z @ I_{ZT} = 5.0\text{mA}$ | | $Z_{ZT} @ I_{ZT} = 5.0\text{mA}$ | $Z_{ZK} @ I_{ZK} = 1.0\text{mA}$ | T_C | $V_R @ I_R = 0.1\mu\text{A}$ |
| | Min V | Max V | Ω | Ω | % / °C | V |

300mW Zener Diodes (DUAL Common Cathode) / SOT-23



| | | | | | | |
|----------|------|------|-----|-----|--------|------|
| DZ23C2V7 | 2.5 | 2.9 | 83 | 500 | -0.065 | — |
| DZ23C3V0 | 2.8 | 3.2 | 95 | 500 | -0.060 | — |
| DZ23C3V3 | 3.1 | 3.5 | 95 | 500 | -0.055 | — |
| DZ23C3V6 | 3.4 | 3.8 | 95 | 500 | -0.055 | — |
| DZ23C3V9 | 3.7 | 4.1 | 95 | 500 | -0.050 | — |
| DZ23C4V3 | 4.0 | 4.6 | 95 | 500 | -0.035 | — |
| DZ23C4V7 | 4.4 | 5.0 | 78 | 500 | -0.015 | — |
| DZ23C5V1 | 4.8 | 5.4 | 60 | 480 | +0.005 | 0.8 |
| DZ23C5V6 | 5.2 | 6.0 | 40 | 400 | +0.020 | 1.0 |
| DZ23C6V2 | 5.8 | 6.6 | 10 | 200 | +0.030 | 2.0 |
| DZ23C6V8 | 6.4 | 7.2 | 8.0 | 150 | +0.045 | 3.0 |
| DZ23C7V5 | 7.0 | 7.9 | 7.0 | 50 | +0.050 | 5.0 |
| DZ23C8V2 | 7.7 | 8.7 | 7.0 | 50 | +0.055 | 6.0 |
| DZ23C9V1 | 8.5 | 9.6 | 10 | 50 | +0.065 | 7.0 |
| DZ23C10 | 9.4 | 10.6 | 15 | 70 | +0.065 | 7.5 |
| DZ23C11 | 10.4 | 11.6 | 20 | 70 | +0.070 | 8.5 |
| DZ23C12 | 11.4 | 12.7 | 20 | 90 | +0.075 | 9.0 |
| DZ23C13 | 12.4 | 14.1 | 25 | 110 | +0.080 | 10.0 |
| DZ23C15 | 13.8 | 15.6 | 30 | 110 | +0.080 | 11.0 |
| DZ23C16 | 15.3 | 17.1 | 40 | 170 | +0.090 | 12.0 |
| DZ23C18 | 16.8 | 19.1 | 50 | 170 | +0.090 | 14.0 |
| DZ23C20 | 18.8 | 21.2 | 50 | 220 | +0.090 | 15.0 |
| DZ23C22 | 20.8 | 23.3 | 55 | 220 | +0.090 | 17.0 |
| DZ23C24 | 22.8 | 25.6 | 80 | 220 | +0.090 | 18.0 |
| DZ23C27 | 25.1 | 28.9 | 80 | 250 | +0.090 | 20.0 |
| DZ23C30 | 28 | 32 | 80 | 250 | +0.090 | 22.5 |
| DZ23C33 | 31 | 35 | 80 | 250 | +0.090 | 25.0 |
| DZ23C36 | 34 | 38 | 90 | 250 | +0.090 | 27.0 |
| DZ23C39 | 37 | 41 | 90 | 300 | +0.110 | 29.0 |
| DZ23C43 | 40 | 46 | 100 | 700 | +0.110 | 32.0 |
| DZ23C47 | 44 | 50 | 100 | 750 | +0.110 | 35.0 |
| DZ23C51 | 48 | 54 | 100 | 750 | +0.110 | 38.0 |

1. Tested with I_{ZT} current pulses. Pulse width = 5.0ms.

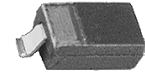


Pin Configuration

| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | Typical Temperature Coefficient | Min. Reverse Voltage | Max. Zener Current ¹ | |
|-------------|--|-------|---|---|---------------------------------|---|---|---|
| | V _Z @ I _{ZT} = 5.0mA | | Z _{ZT} @ I _{ZT} = 5.0mA | Z _{ZK} @ I _{ZK} = 1.0mA | T _C | V _R @ I _R = 0.1μA | I _{ZT} @ T _A = 45°C | I _{ZT} @ T _A = 25°C |
| | Min V | Max V | Ω | Ω | % / °C | V | mA | mA |


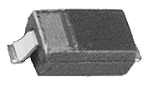
410mW Zener Diodes / SOD-123

NEW



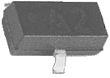
| | | | | | | | | |
|-----------|------|------|-----|-----|--------|------|-----|-----|
| BZT52C2V7 | 2.5 | 2.9 | 83 | 500 | -0.065 | — | 113 | 134 |
| BZT52C3V0 | 2.8 | 3.2 | 95 | 500 | -0.060 | — | 98 | 118 |
| BZT52C3V3 | 3.1 | 3.5 | 95 | 500 | -0.055 | — | 92 | 109 |
| BZT52C3V6 | 3.4 | 3.8 | 95 | 500 | -0.055 | — | 85 | 100 |
| BZT52C3V9 | 3.7 | 4.1 | 95 | 500 | -0.050 | — | 77 | 92 |
| BZT52C4V3 | 4.0 | 4.6 | 95 | 500 | -0.035 | — | 71 | 84 |
| BZT52C4V7 | 4.4 | 5.0 | 78 | 500 | -0.015 | — | 64 | 76 |
| BZT52C5V1 | 4.8 | 5.4 | 60 | 480 | +0.005 | 0.8 | 56 | 67 |
| BZT52C5V6 | 5.2 | 6.0 | 40 | 400 | +0.020 | 1.0 | 50 | 59 |
| BZT52C6V2 | 5.8 | 6.6 | 10 | 200 | +0.030 | 2.0 | 45 | 54 |
| BZT52C6V8 | 6.4 | 7.2 | 8.0 | 150 | +0.045 | 3.0 | 41 | 49 |
| BZT52C7V5 | 7.0 | 7.9 | 7.0 | 50 | +0.050 | 5.0 | 37 | 44 |
| BZT52C8V2 | 7.7 | 8.7 | 7.0 | 50 | +0.055 | 6.0 | 34 | 40 |
| BZT52C9V1 | 8.5 | 9.6 | 10 | 50 | +0.065 | 7.0 | 30 | 36 |
| BZT52C10 | 9.4 | 10.6 | 15 | 70 | +0.065 | 7.5 | 28 | 33 |
| BZT52C11 | 10.4 | 11.6 | 20 | 70 | +0.070 | 8.5 | 25 | 30 |
| BZT52C12 | 11.4 | 12.7 | 20 | 90 | +0.075 | 9.0 | 23 | 28 |
| BZT52C13 | 12.4 | 14.1 | 25 | 110 | +0.080 | 10.0 | 21 | 25 |
| BZT52C15 | 13.8 | 15.6 | 30 | 110 | +0.080 | 11.0 | 19 | 23 |
| BZT52C16 | 15.3 | 17.1 | 40 | 170 | +0.090 | 12.0 | 17 | 20 |
| BZT52C18 | 16.8 | 19.1 | 50 | 170 | +0.090 | 14.0 | 15 | 18 |
| BZT52C20 | 18.8 | 21.2 | 50 | 220 | +0.090 | 15.0 | 14 | 17 |
| BZT52C22 | 20.8 | 23.3 | 55 | 220 | +0.090 | 17.0 | 13 | 16 |
| BZT52C24 | 22.8 | 25.6 | 80 | 220 | +0.090 | 18.0 | 11 | 13 |
| BZT52C27 | 25.1 | 28.9 | 80 | 250 | +0.090 | 20.0 | 10 | 12 |
| BZT52C30 | 28 | 32 | 80 | 250 | +0.090 | 22.5 | 9.0 | 10 |
| BZT52C33 | 31 | 35 | 80 | 250 | +0.090 | 25.0 | 8.0 | 9.0 |
| BZT52C36 | 34 | 38 | 90 | 250 | +0.090 | 27.0 | 8.0 | 9.0 |
| BZT52C39 | 37 | 41 | 90 | 300 | +0.110 | 29.0 | 7.0 | 8.0 |
| BZT52C43 | 40 | 46 | 100 | 700 | +0.110 | 32.0 | 6.0 | 7.0 |
| BZT52C47 | 44 | 50 | 100 | 750 | +0.110 | 35.0 | 5.0 | 6.0 |
| BZT52C51 | 48 | 54 | 100 | 750 | +0.110 | 38.0 | 5.0 | 6.0 |

1. Tested with I_{ZT} current pulses. Pulse width = 5.0ms.

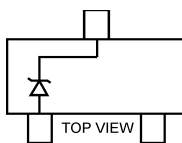
| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance ² | | | | Max. Reverse Leakage Current | |
|---|----------------------------------|-------|-------|-----------------------------------|-----|-----------------------------------|------|---------------------------------|-----|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | I _R @ V _R | |
| | Nom V | Min V | Max V | Ω | mA | Ω | mA | μA | V |
| 500mW Zener Diodes / SOD-123   | | | | | | | | | |
| MMSZ5221B | 2.4 | 2.28 | 2.52 | 30 | 20 | 1200 | 0.25 | 100 | 1.0 |
| MMSZ5222B | 2.5 | 2.38 | 2.63 | 30 | 20 | 1250 | 0.25 | 100 | 1.0 |
| MMSZ5223B | 2.7 | 2.57 | 2.84 | 30 | 20 | 1300 | 0.25 | 75 | 1.0 |
| MMSZ5225B | 3.0 | 2.85 | 3.15 | 30 | 20 | 1600 | 0.25 | 50 | 1.0 |
| MMSZ5226B | 3.3 | 3.14 | 3.47 | 28 | 20 | 1600 | 0.25 | 25 | 1.0 |
| MMSZ5227B | 3.6 | 3.42 | 3.78 | 24 | 20 | 1700 | 0.25 | 15 | 1.0 |
| MMSZ5228B | 3.9 | 3.71 | 4.10 | 23 | 20 | 1900 | 0.25 | 10 | 1.0 |
| MMSZ5229B | 4.3 | 4.09 | 4.52 | 22 | 20 | 2000 | 0.25 | 5.0 | 1.0 |
| MMSZ5230B | 4.7 | 4.47 | 4.94 | 19 | 20 | 1900 | 0.25 | 5.0 | 2.0 |
| MMSZ5231B | 5.1 | 4.85 | 5.36 | 17 | 20 | 1600 | 0.25 | 5.0 | 2.0 |
| MMSZ5232B | 5.6 | 5.32 | 5.88 | 11 | 20 | 1600 | 0.25 | 5.0 | 3.0 |
| MMSZ5234B | 6.2 | 5.89 | 6.51 | 7.0 | 20 | 1000 | 0.25 | 5.0 | 4.0 |
| MMSZ5235B | 6.8 | 6.46 | 7.14 | 5.0 | 20 | 750 | 0.25 | 3.0 | 5.0 |
| MMSZ5236B | 7.5 | 7.13 | 7.88 | 6.0 | 20 | 500 | 0.25 | 3.0 | 6.0 |
| MMSZ5237B | 8.2 | 7.79 | 8.61 | 8.0 | 20 | 500 | 0.25 | 3.0 | 6.0 |
| MMSZ5239B | 9.1 | 8.65 | 9.56 | 10 | 20 | 600 | 0.25 | 3.0 | 6.5 |
| MMSZ5240B | 10 | 9.50 | 10.50 | 17 | 20 | 600 | 0.25 | 3.0 | 8.0 |
| MMSZ5241B | 11 | 10.45 | 11.55 | 22 | 20 | 600 | 0.25 | 3.0 | 8.4 |
| MMSZ5242B | 12 | 11.40 | 12.60 | 30 | 20 | 600 | 0.25 | 2.0 | 9.1 |
| MMSZ5243B | 13 | 12.35 | 13.65 | 13 | 9.5 | 600 | 0.25 | 1.0 | 9.9 |
| MMSZ5245B | 15 | 14.25 | 15.75 | 16 | 8.5 | 600 | 0.25 | 0.5 | 11 |
| MMSZ5246B | 16 | 15.20 | 16.80 | 17 | 7.8 | 600 | 0.25 | 0.1 | 12 |
| MMSZ5248B | 18 | 17.10 | 18.90 | 21 | 7.0 | 600 | 0.25 | 0.1 | 14 |
| MMSZ5250B | 20 | 19.00 | 21.00 | 25 | 6.2 | 600 | 0.25 | 0.1 | 15 |
| MMSZ5251B | 22 | 20.90 | 23.10 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMSZ5252B | 24 | 22.80 | 25.20 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMSZ5254B | 27 | 25.65 | 28.35 | 41 | 5.0 | 600 | 0.25 | 0.1 | 21 |
| MMSZ5255B | 28 | 26.60 | 29.40 | 44 | 4.5 | 600 | 0.25 | 0.1 | 21 |
| MMSZ5256B | 30 | 28.50 | 31.50 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMSZ5257B | 33 | 31.35 | 34.65 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMSZ5258B | 36 | 34.20 | 37.80 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMSZ5259B | 39 | 37.05 | 40.95 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |

1. Tested with pulses, T_P = 100ms.

2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance | | | | Max. Reverse Leakage Current | |
|--|----------------------------------|-------|-------|-----------------------------------|-----|-----------------------------------|------|---|-----|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | | Z _{ZK} @ I _{ZK} | | V _R @ I _R | |
| | Nom V | Min V | Max V | Ω | mA | Ω | mA | μA | V |
| 350mW Zener Diodes / SOT-23 NEW | | | | | | | |  | |
| MMBZ5221B | 2.4 | 2.28 | 2.52 | 30 | 20 | 1200 | 0.25 | 100 | 1.0 |
| MMBZ5222B | 2.5 | 2.38 | 2.63 | 30 | 20 | 1250 | 0.25 | 100 | 1.0 |
| MMBZ5223B | 2.7 | 2.57 | 2.84 | 30 | 20 | 1300 | 0.25 | 75 | 1.0 |
| MMBZ5225B | 3.0 | 2.85 | 3.15 | 30 | 20 | 1600 | 0.25 | 50 | 1.0 |
| MMBZ5226B | 3.3 | 3.14 | 3.47 | 28 | 20 | 1600 | 0.25 | 25 | 1.0 |
| MMBZ5227B | 3.6 | 3.42 | 3.78 | 24 | 20 | 1700 | 0.25 | 15 | 1.0 |
| MMBZ5228B | 3.9 | 3.71 | 4.10 | 23 | 20 | 1900 | 0.25 | 10 | 1.0 |
| MMBZ5229B | 4.3 | 4.09 | 4.52 | 22 | 20 | 2000 | 0.25 | 5.0 | 1.0 |
| MMBZ5230B | 4.7 | 4.47 | 4.94 | 19 | 20 | 1900 | 0.25 | 5.0 | 2.0 |
| MMBZ5231B | 5.1 | 4.85 | 5.36 | 17 | 20 | 2000 | 0.25 | 5.0 | 2.0 |
| MMBZ5232B | 5.6 | 5.32 | 5.88 | 11 | 20 | 1900 | 0.25 | 5.0 | 3.0 |
| MMBZ5234B | 6.2 | 5.89 | 6.51 | 7.0 | 20 | 1600 | 0.25 | 5.0 | 4.0 |
| MMBZ5235B | 6.8 | 6.46 | 7.14 | 5.0 | 20 | 1600 | 0.25 | 3.0 | 5.0 |
| MMBZ5236B | 7.5 | 7.13 | 7.88 | 6.0 | 20 | 1000 | 0.25 | 3.0 | 6.0 |
| MMBZ5237B | 8.2 | 7.79 | 8.61 | 8.0 | 20 | 750 | 0.25 | 3.0 | 6.5 |
| MMBZ5239B | 9.1 | 8.65 | 9.56 | 10 | 20 | 500 | 0.25 | 3.0 | 7.0 |
| MMBZ5240B | 10 | 9.50 | 10.50 | 17 | 20 | 500 | 0.25 | 3.0 | 8.0 |
| MMBZ5241B | 11 | 10.45 | 11.55 | 22 | 20 | 600 | 0.25 | 2.0 | 8.4 |
| MMBZ5242B | 12 | 11.40 | 12.60 | 30 | 20 | 600 | 0.25 | 1.0 | 9.1 |
| MMBZ5243B | 13 | 12.35 | 13.65 | 13 | 9.5 | 600 | 0.25 | 0.5 | 9.9 |
| MMBZ5245B | 15 | 14.25 | 15.75 | 16 | 8.5 | 600 | 0.25 | 0.1 | 11 |
| MMBZ5246B | 16 | 15.20 | 16.80 | 17 | 7.8 | 600 | 0.25 | 0.1 | 12 |
| MMBZ5248B | 18 | 17.10 | 18.90 | 21 | 7.0 | 600 | 0.25 | 0.1 | 14 |
| MMBZ5250B | 20 | 19.00 | 21.00 | 25 | 6.2 | 600 | 0.25 | 0.1 | 15 |
| MMBZ5251B | 22 | 20.90 | 23.10 | 29 | 5.6 | 600 | 0.25 | 0.1 | 17 |
| MMBZ5252B | 24 | 22.80 | 25.20 | 33 | 5.2 | 600 | 0.25 | 0.1 | 18 |
| MMBZ5254B | 27 | 25.65 | 28.35 | 41 | 5.0 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5255B | 28 | 26.60 | 29.40 | 44 | 4.5 | 600 | 0.25 | 0.1 | 21 |
| MMBZ5256B | 30 | 28.50 | 31.50 | 49 | 4.2 | 600 | 0.25 | 0.1 | 23 |
| MMBZ5257B | 33 | 31.35 | 34.65 | 58 | 3.8 | 700 | 0.25 | 0.1 | 25 |
| MMBZ5258B | 36 | 34.20 | 37.80 | 70 | 3.4 | 700 | 0.25 | 0.1 | 27 |
| MMBZ5259B | 39 | 37.05 | 40.95 | 80 | 3.2 | 800 | 0.25 | 0.1 | 30 |

1. V_Z measured @ I_{ZT} using a pulse test. I_{ZT} pulse width = 5.0ms.



Pin Configuration

| Type Number | Zener Voltage Range ¹ | | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|----|-----------------------------------|----|---------------------------------|------------------------------|---|
| | $V_Z @ I_{ZT}$ | | | | $Z_{ZT} @ I_{ZK}$ | | T_C | $I_R @ V_R$ | |
| | Nom V | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / MicroMELF NEW



| | | | | | | | | | |
|----------|-----|-------|-------|-----|-----|------|----------|-----|-----|
| BZM5221B | 2.4 | 2.28 | 2.52 | 20 | 30 | 1200 | -0.085 | 100 | 1.0 |
| BZM5222B | 2.5 | 2.38 | 2.63 | 20 | 30 | 1250 | -0.085 | 100 | 1.0 |
| BZM5223B | 2.7 | 2.57 | 2.84 | 20 | 30 | 1300 | -0.080 | 75 | 1.0 |
| BZM5224B | 2.8 | 2.66 | 2.94 | 20 | 30 | 1400 | -0.080 | 50 | 1.0 |
| BZM5225B | 3.0 | 2.85 | 3.15 | 20 | 30 | 1600 | -0.075 | 25 | 1.0 |
| BZM5226B | 3.3 | 3.14 | 3.47 | 20 | 28 | 1600 | -0.070 | 15 | 1.0 |
| BZM5227B | 3.6 | 3.42 | 3.78 | 20 | 24 | 1700 | -0.065 | 10 | 1.0 |
| BZM5228B | 3.9 | 3.71 | 4.10 | 20 | 23 | 1900 | -0.060 | 5.0 | 1.0 |
| BZM5229B | 4.3 | 4.09 | 4.52 | 20 | 22 | 2000 | +/-0.055 | 5.0 | 1.0 |
| BZM5230B | 4.7 | 4.47 | 4.94 | 20 | 19 | 1900 | +/-0.030 | 5.0 | 2.0 |
| BZM5231B | 5.1 | 4.85 | 5.36 | 20 | 17 | 1600 | +/-0.030 | 5.0 | 2.0 |
| BZM5232B | 5.6 | 5.32 | 5.88 | 20 | 11 | 1600 | +/-0.038 | 5.0 | 3.0 |
| BZM5233B | 6.0 | 5.70 | 6.30 | 20 | 7.0 | 1600 | +/-0.038 | 3.0 | 3.5 |
| BZM5234B | 6.2 | 5.89 | 6.51 | 20 | 7.0 | 1000 | +0.045 | 3.0 | 4.0 |
| BZM5235B | 6.8 | 6.46 | 7.14 | 20 | 5.0 | 750 | +0.050 | 3.0 | 5.0 |
| BZM5236B | 7.5 | 7.13 | 7.88 | 20 | 6.0 | 500 | +0.058 | 3.0 | 6.0 |
| BZM5237B | 8.2 | 7.79 | 8.61 | 20 | 8.0 | 500 | +0.062 | 3.0 | 6.5 |
| BZM5238B | 8.7 | 8.27 | 9.14 | 20 | 8.0 | 600 | +0.065 | 2.0 | 6.5 |
| BZM5239B | 9.1 | 8.65 | 9.56 | 20 | 10 | 600 | +0.068 | 1.0 | 7.0 |
| BZM5240B | 10 | 9.50 | 10.50 | 20 | 17 | 600 | +0.075 | 0.5 | 8.0 |
| BZM5241B | 11 | 10.45 | 11.55 | 20 | 22 | 600 | +0.076 | 0.1 | 8.4 |
| BZM5242B | 12 | 11.40 | 12.60 | 20 | 30 | 600 | +0.077 | 0.1 | 9.1 |
| BZM5243B | 13 | 12.35 | 13.65 | 9.5 | 13 | 600 | +0.079 | 0.1 | 9.9 |
| BZM5244B | 14 | 13.30 | 14.70 | 9.0 | 15 | 600 | +0.082 | 0.1 | 10 |
| BZM5245B | 15 | 14.25 | 15.75 | 8.5 | 16 | 600 | +0.082 | 0.1 | 11 |
| BZM5246B | 16 | 15.20 | 16.80 | 7.8 | 17 | 600 | +0.083 | 0.1 | 12 |
| BZM5247B | 17 | 16.15 | 17.85 | 7.4 | 19 | 600 | +0.084 | 0.1 | 13 |
| BZM5248B | 18 | 17.10 | 18.90 | 7.0 | 21 | 600 | +0.085 | 0.1 | 14 |
| BZM5249B | 19 | 18.05 | 19.95 | 6.6 | 23 | 600 | +0.086 | 0.1 | 14 |
| BZM5250B | 20 | 19.00 | 21.00 | 6.2 | 25 | 600 | +0.086 | 0.1 | 15 |
| BZM5251B | 22 | 20.90 | 23.10 | 5.6 | 29 | 600 | +0.087 | 0.1 | 17 |
| BZM5252B | 24 | 22.80 | 25.20 | 5.2 | 33 | 600 | +0.087 | 0.1 | 18 |
| BZM5253B | 25 | 23.75 | 26.25 | 5.0 | 35 | 600 | +0.089 | 0.1 | 19 |
| BZM5254B | 27 | 25.65 | 28.35 | 4.6 | 41 | 600 | +0.090 | 0.1 | 21 |
| BZM5255B | 28 | 26.60 | 29.40 | 4.5 | 44 | 600 | +0.091 | 0.1 | 21 |
| BZM5256B | 30 | 28.50 | 31.50 | 4.2 | 49 | 600 | +0.091 | 0.1 | 23 |

1. Tested with pulses, $T_P = 100ms$.

2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|----|-----------------------------------|----|---------------------------------|------------------------------|---------------------------------|
| | V _Z @ I _{ZT} | | | | Z _{ZT} @ I _{ZK} | | | T _C | I _R @ V _R |
| | Nom V | Min V | Max V | mA | Ω | mA | % / °C | | μA |

500mW Zener Diodes / MicroMELF (Continued)  

| | | | | | | | | | |
|----------|----|-------|-------|-----|-----|------|--------|-----|----|
| BZM5257B | 33 | 31.35 | 34.65 | 3.8 | 58 | 700 | +0.092 | 0.1 | 25 |
| BZM5258B | 36 | 34.20 | 37.80 | 3.4 | 70 | 700 | +0.093 | 0.1 | 27 |
| BZM5259B | 39 | 37.05 | 40.95 | 3.2 | 80 | 800 | +0.094 | 0.1 | 30 |
| BZM5260B | 43 | 40.85 | 45.15 | 3.0 | 93 | 900 | +0.095 | 0.1 | 33 |
| BZM5261B | 47 | 44.65 | 49.35 | 2.7 | 105 | 1000 | +0.095 | 0.1 | 36 |
| BZM5262B | 51 | 48.45 | 53.55 | 2.5 | 125 | 1100 | +0.096 | 0.1 | 39 |
| BZM5263B | 56 | 53.20 | 58.80 | 2.2 | 150 | 1300 | +0.096 | 0.1 | 43 |
| BZM5264B | 60 | 57.00 | 63.00 | 2.1 | 170 | 1400 | +0.097 | 0.1 | 46 |
| BZM5265B | 62 | 58.90 | 65.10 | 2.0 | 185 | 1400 | +0.097 | 0.1 | 47 |
| BZM5266B | 68 | 64.60 | 71.40 | 1.8 | 230 | 1600 | +0.097 | 0.1 | 52 |
| BZM5267B | 75 | 71.25 | 78.75 | 1.7 | 270 | 1700 | +0.098 | 0.1 | 56 |

1. Tested with pulses, T_P = 100ms.
2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----|-----------------------------------|----|---------------------------------|---------------------------------|---|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZK} | | T _C | I _R @ V _R | |
| | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / MicroMELF

NEW



| | | | | | | | | |
|-----------|------|------|-----|--------|-----|----------------|-------|-----|
| BZM55C2V4 | 2.28 | 2.56 | 5.0 | < 600 | 1.0 | -0.09 to -0.06 | < 50 | 1.0 |
| BZM55C2V7 | 2.5 | 2.9 | 5.0 | < 600 | 1.0 | -0.09 to -0.06 | < 10 | 1.0 |
| BZM55C3V0 | 2.8 | 3.2 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 4.0 | 1.0 |
| BZM55C3V3 | 3.1 | 3.5 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 2.0 | 1.0 |
| BZM55C3V6 | 3.4 | 3.8 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 2.0 | 1.0 |
| BZM55C3V9 | 3.7 | 4.1 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 2.0 | 1.0 |
| BZM55C4V3 | 4.0 | 4.6 | 5.0 | < 600 | 1.0 | -0.06 to -0.03 | < 1.0 | 1.0 |
| BZM55C4V7 | 4.4 | 5.05 | 5.0 | < 600 | 1.0 | -0.05 to +0.02 | < 0.5 | 1.0 |
| BZM55C5V1 | 4.8 | 5.4 | 5.0 | < 550 | 1.0 | -0.02 to +0.02 | < 0.1 | 1.0 |
| BZM55C5V6 | 5.2 | 6.0 | 5.0 | < 450 | 1.0 | -0.05 to +0.05 | < 0.1 | 1.0 |
| BZM55C6V2 | 5.8 | 6.6 | 5.0 | < 200 | 1.0 | 0.03 to 0.06 | < 0.1 | 2.0 |
| BZM55C6V8 | 6.4 | 7.2 | 5.0 | < 150 | 1.0 | 0.03 to 0.07 | < 0.1 | 3.0 |
| BZM55C7V5 | 7.0 | 7.9 | 5.0 | < 50 | 1.0 | 0.03 to 0.07 | < 0.1 | 5.0 |
| BZM55C8V2 | 7.7 | 8.7 | 5.0 | < 50 | 1.0 | 0.03 to 0.08 | < 0.1 | 6.2 |
| BZM55C9V1 | 8.5 | 9.6 | 5.0 | < 50 | 1.0 | 0.03 to 0.09 | < 0.1 | 6.8 |
| BZM55C10 | 9.4 | 10.6 | 5.0 | < 70 | 1.0 | 0.03 to 0.10 | < 0.1 | 7.5 |
| BZM55C11 | 10.4 | 11.6 | 5.0 | < 70 | 1.0 | 0.03 to 0.11 | < 0.1 | 8.2 |
| BZM55C12 | 11.4 | 12.7 | 5.0 | < 90 | 1.0 | 0.03 to 0.11 | < 0.1 | 9.1 |
| BZM55C13 | 12.4 | 14.1 | 5.0 | < 110 | 1.0 | 0.03 to 0.11 | < 0.1 | 10 |
| BZM55C15 | 13.8 | 15.6 | 5.0 | < 110 | 1.0 | 0.03 to 0.11 | < 0.1 | 11 |
| BZM55C16 | 15.3 | 17.1 | 5.0 | < 170 | 1.0 | 0.03 to 0.11 | < 0.1 | 12 |
| BZM55C18 | 16.8 | 19.1 | 5.0 | < 170 | 1.0 | 0.03 to 0.11 | < 0.1 | 13 |
| BZM55C20 | 18.8 | 21.2 | 5.0 | < 220 | 1.0 | 0.03 to 0.11 | < 0.1 | 15 |
| BZM55C22 | 20.8 | 23.3 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 16 |
| BZM55C24 | 22.8 | 25.6 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 18 |
| BZM55C27 | 25.1 | 28.9 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 20 |
| BZM55C30 | 28 | 32 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 22 |
| BZM55C33 | 31 | 35 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 24 |
| BZM55C36 | 34 | 38 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 27 |
| BZM55C39 | 37 | 41 | 2.5 | < 500 | 1.0 | 0.04 to 0.12 | < 0.1 | 30 |
| BZM55C43 | 40 | 46 | 2.5 | < 600 | 0.5 | 0.04 to 0.12 | < 0.1 | 33 |
| BZM55C47 | 44 | 50 | 2.5 | < 700 | 0.5 | 0.04 to 0.12 | < 0.1 | 36 |
| BZM55C51 | 48 | 54 | 2.5 | < 700 | 0.5 | 0.04 to 0.12 | < 0.1 | 39 |
| BZM55C56 | 52 | 60 | 2.5 | < 1000 | 0.5 | 0.04 to 0.12 | < 0.1 | 43 |
| BZM55C62 | 58 | 66 | 2.5 | < 1000 | 0.5 | 0.04 to 0.12 | < 0.1 | 47 |
| BZM44C68 | 64 | 72 | 2.5 | < 1000 | 0.5 | 0.04 to 0.12 | < 0.1 | 51 |
| BZM55C75 | 70 | 79 | 2.5 | < 1500 | 0.5 | 0.04 to 0.12 | < 0.1 | 56 |

1. Tested with pulses, T_P = 100ms.

2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----|-----------------------------------|----|---------------------------------|---------------------------------|---|
| | V _Z @ I _{ZT} | | | Z _{ZK} @ I _{ZK} | | T _C | I _R @ V _R | |
| | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / QuadromELF

NEW



| | | | | | | | | |
|-----------|------|------|-----|--------|-----|----------------|-------|-----|
| BZT55C2V4 | 2.28 | 2.56 | 5.0 | < 600 | 1.0 | -0.09 to -0.06 | < 50 | 1.0 |
| BZT55C2V7 | 2.5 | 2.9 | 5.0 | < 600 | 1.0 | -0.09 to -0.06 | < 10 | 1.0 |
| BZT55C3V0 | 2.8 | 3.2 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 4.0 | 1.0 |
| BZT55C3V3 | 3.1 | 3.5 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 2.0 | 1.0 |
| BZT55C3V6 | 3.4 | 3.8 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 2.0 | 1.0 |
| BZT55C3V9 | 3.7 | 4.1 | 5.0 | < 600 | 1.0 | -0.08 to -0.05 | < 2.0 | 1.0 |
| BZT55C4V3 | 4.0 | 4.6 | 5.0 | < 600 | 1.0 | -0.06 to -0.03 | < 1.0 | 1.0 |
| BZT55C4V7 | 4.4 | 5.0 | 5.0 | < 600 | 1.0 | -0.05 to +0.02 | < 0.5 | 1.0 |
| BZT55C5V1 | 4.8 | 5.4 | 5.0 | < 550 | 1.0 | -0.02 to +0.02 | < 0.1 | 1.0 |
| BZT55C5V6 | 5.2 | 6.0 | 5.0 | < 450 | 1.0 | -0.05 to +0.05 | < 0.1 | 1.0 |
| BZT55C6V2 | 5.8 | 6.6 | 5.0 | < 200 | 1.0 | 0.03 to 0.06 | < 0.1 | 2.0 |
| BZT55C6V8 | 6.4 | 7.2 | 5.0 | < 150 | 1.0 | 0.03 to 0.07 | < 0.1 | 3.0 |
| BZT55C7V5 | 7.0 | 7.9 | 5.0 | < 50 | 1.0 | 0.03 to 0.07 | < 0.1 | 5.0 |
| BZT55C8V2 | 7.7 | 8.7 | 5.0 | < 50 | 1.0 | 0.03 to 0.08 | < 0.1 | 6.2 |
| BZT55C9V1 | 8.5 | 9.6 | 5.0 | < 50 | 1.0 | 0.03 to 0.09 | < 0.1 | 6.8 |
| BZT55C10 | 9.4 | 10.6 | 5.0 | < 70 | 1.0 | 0.03 to 0.10 | < 0.1 | 7.5 |
| BZT55C11 | 10.4 | 11.6 | 5.0 | < 70 | 1.0 | 0.03 to 0.11 | < 0.1 | 8.2 |
| BZT55C12 | 11.4 | 12.7 | 5.0 | < 90 | 1.0 | 0.03 to 0.11 | < 0.1 | 9.1 |
| BZT55C13 | 12.4 | 14.1 | 5.0 | < 110 | 1.0 | 0.03 to 0.11 | < 0.1 | 10 |
| BZT55C15 | 13.8 | 15.6 | 5.0 | < 110 | 1.0 | 0.03 to 0.11 | < 0.1 | 11 |
| BZT55C16 | 15.3 | 17.1 | 5.0 | < 170 | 1.0 | 0.03 to 0.11 | < 0.1 | 12 |
| BZT55C18 | 16.8 | 19.1 | 5.0 | < 170 | 1.0 | 0.03 to 0.11 | < 0.1 | 13 |
| BZT55C20 | 18.8 | 21.2 | 5.0 | < 220 | 1.0 | 0.03 to 0.11 | < 0.1 | 15 |
| BZT55C22 | 20.8 | 23.3 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 16 |
| BZT55C24 | 22.8 | 25.6 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 18 |
| BZT55C27 | 25.1 | 28.9 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 20 |
| BZT55C30 | 28 | 32 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 22 |
| BZT55C33 | 31 | 35 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 24 |
| BZT55C36 | 34 | 38 | 5.0 | < 220 | 1.0 | 0.04 to 0.12 | < 0.1 | 27 |
| BZT55C39 | 37 | 41 | 2.5 | < 500 | 0.5 | 0.04 to 0.12 | < 0.1 | 30 |
| BZT55C43 | 40 | 46 | 2.5 | < 600 | 0.5 | 0.04 to 0.12 | < 0.1 | 33 |
| BZT55C47 | 44 | 50 | 2.5 | < 700 | 0.5 | 0.04 to 0.12 | < 0.1 | 36 |
| BZT55C51 | 48 | 54 | 2.5 | < 700 | 0.5 | 0.04 to 0.12 | < 0.1 | 39 |
| BZT55C56 | 52 | 60 | 2.5 | < 1000 | 0.5 | 0.04 to 0.12 | < 0.1 | 43 |
| BZT55C62 | 58 | 66 | 2.5 | < 1000 | 0.5 | 0.04 to 0.12 | < 0.1 | 47 |
| BZT55C68 | 64 | 72 | 2.5 | < 1000 | 0.5 | 0.04 to 0.12 | < 0.1 | 51 |
| BZT55C75 | 70 | 79 | 2.5 | < 1500 | 0.5 | 0.04 to 0.12 | < 0.1 | 56 |

1. Tested with pulses, T_p = 100ms.

2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----|-----------------------------------|----|---------------------------------|---------------------------------|---|
| | V _Z @ I _{ZT} | | | Z _{ZK} @ I _{ZK} | | T _C | I _R @ V _R | |
| | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / QuadromELF

NEW



| | | | | | | | | |
|----------|-------|-------|-----|-----|-----|----------|-----|-----|
| TZQ5221B | 2.28 | 2.52 | 20 | 30 | 20 | -0.085 | 100 | 1.0 |
| TZQ5222B | 2.38 | 2.63 | 20 | 30 | 20 | -0.085 | 100 | 1.0 |
| TZQ5223B | 2.57 | 2.84 | 20 | 30 | 20 | -0.080 | 75 | 1.0 |
| TZQ5224B | 2.66 | 2.94 | 20 | 30 | 20 | -0.080 | 75 | 1.0 |
| TZQ5225B | 2.85 | 3.15 | 20 | 30 | 20 | -0.075 | 50 | 1.0 |
| TZQ5226B | 3.14 | 3.47 | 20 | 28 | 20 | -0.070 | 25 | 1.0 |
| TZQ5227B | 3.42 | 3.78 | 20 | 24 | 20 | -0.065 | 15 | 1.0 |
| TZQ5228B | 3.71 | 4.10 | 20 | 23 | 20 | -0.060 | 10 | 1.0 |
| TZQ5229B | 4.09 | 4.52 | 20 | 22 | 20 | +/-0.055 | 5.0 | 1.0 |
| TZQ5230B | 4.47 | 4.94 | 20 | 19 | 20 | +/-0.030 | 5.0 | 2.0 |
| TZQ5231B | 4.85 | 5.36 | 20 | 17 | 20 | +/-0.030 | 5.0 | 2.0 |
| TZQ5232B | 5.32 | 5.88 | 20 | 11 | 20 | +0.038 | 5.0 | 3.0 |
| TZQ5233B | 5.70 | 6.30 | 20 | 7.0 | 20 | +0.038 | 5.0 | 3.5 |
| TZQ5234B | 5.89 | 6.51 | 20 | 7.0 | 20 | +0.045 | 5.0 | 4.0 |
| TZQ5235B | 6.46 | 7.14 | 20 | 5.0 | 20 | +0.050 | 3.0 | 5.0 |
| TZQ5236B | 7.13 | 7.88 | 20 | 6.0 | 20 | +0.058 | 3.0 | 6.0 |
| TZQ5237B | 7.79 | 8.61 | 20 | 8.0 | 20 | +0.062 | 3.0 | 6.5 |
| TZQ5238B | 8.27 | 9.14 | 20 | 8.0 | 20 | +0.065 | 3.0 | 6.5 |
| TZQ5239B | 8.65 | 9.56 | 20 | 10 | 20 | +0.068 | 3.0 | 7.0 |
| TZQ5240B | 9.50 | 10.50 | 20 | 17 | 20 | +0.075 | 3.0 | 8.0 |
| TZQ5241B | 10.45 | 11.55 | 20 | 22 | 20 | +0.076 | 2.0 | 8.4 |
| TZQ5242B | 11.40 | 12.50 | 20 | 30 | 20 | +0.077 | 1.0 | 9.1 |
| TZQ5243B | 12.35 | 13.65 | 9.5 | 13 | 9.5 | +0.079 | 0.5 | 9.9 |
| TZQ5244B | 13.30 | 14.70 | 9.0 | 15 | 9.0 | +0.082 | 0.1 | 10 |
| TZQ5245B | 14.25 | 15.75 | 8.5 | 16 | 8.5 | +0.082 | 0.1 | 11 |
| TZQ5246B | 15.20 | 16.80 | 7.8 | 17 | 7.8 | +0.083 | 0.1 | 12 |
| TZQ5247B | 16.15 | 17.85 | 7.4 | 19 | 7.4 | +0.084 | 0.1 | 13 |
| TZQ5248B | 17.10 | 18.90 | 7.0 | 21 | 7.0 | +0.085 | 0.1 | 14 |
| TZQ5249B | 18.05 | 19.95 | 6.6 | 23 | 6.6 | +0.086 | 0.1 | 14 |
| TZQ5250B | 19.00 | 21.00 | 6.2 | 25 | 6.2 | +0.086 | 0.1 | 15 |
| TZQ5251B | 20.90 | 23.10 | 5.6 | 29 | 5.6 | +0.087 | 0.1 | 17 |
| TZQ5252B | 22.80 | 25.20 | 5.2 | 33 | 5.2 | +0.087 | 0.1 | 18 |
| TZQ5253B | 23.75 | 26.25 | 5.0 | 35 | 5.0 | +0.089 | 0.1 | 19 |
| TZQ5254B | 25.65 | 28.35 | 4.6 | 41 | 4.6 | +0.090 | 0.1 | 21 |
| TZQ5255B | 26.60 | 29.40 | 4.5 | 44 | 4.5 | +0.091 | 0.1 | 21 |
| TZQ5256B | 28.50 | 31.50 | 4.2 | 49 | 4.2 | +0.091 | 0.1 | 23 |
| TZQ5257B | 31.35 | 34.65 | 3.8 | 58 | 3.8 | +0.092 | 0.1 | 25 |
| TZQ5258B | 34.20 | 37.80 | 3.4 | 70 | 3.4 | +0.093 | 0.1 | 27 |
| TZQ5259B | 37.05 | 40.95 | 3.2 | 80 | 3.2 | +0.094 | 0.1 | 30 |

1. Tested with pulses, T_p = 100ms.
2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|----|-----------------------------------|----|---------------------------------|---------------------------------|---|
| | V _Z @ I _{ZT} | | | Z _{ZK} @ I _{ZK} | | T _C | I _R @ V _R | |
| | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / QuadromELF (Continued)

NEW



| | | | | | | | | |
|----------|-------|-------|-----|-----|-----|--------|-----|----|
| TZQ5260B | 40.85 | 45.15 | 3.0 | 93 | 3.0 | +0.095 | 0.1 | 33 |
| TZQ5261B | 44.65 | 49.35 | 2.7 | 105 | 2.7 | +0.095 | 0.1 | 36 |
| TZQ5262B | 48.45 | 53.55 | 2.5 | 125 | 2.5 | +0.096 | 0.1 | 39 |
| TZQ5263B | 53.20 | 58.80 | 2.2 | 150 | 2.2 | +0.096 | 0.1 | 43 |
| TZQ5264B | 57.00 | 63.00 | 2.1 | 170 | 2.1 | +0.097 | 0.1 | 46 |
| TZQ5265B | 58.90 | 65.10 | 2.0 | 180 | 2.0 | +0.097 | 0.1 | 47 |
| TZQ5266B | 64.60 | 71.40 | 1.8 | 230 | 1.8 | +0.097 | 0.1 | 52 |
| TZQ5267B | 71.25 | 78.75 | 1.7 | 270 | 1.7 | +0.098 | 0.1 | 56 |

1. Tested with pulses, T_p = 100ms.

2. Valid provided that electrodes are kept at ambient temperature.

| Type Number | Zener Voltage Range ¹ | | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|----|-----------------------------------|----|---------------------------------|---------------------------------|---|
| | V _Z @ I _{ZT} | | | | Z _{ZK} @ I _{ZK} | | T _C | I _R @ V _R | |
| | Nom V | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / miniMELF



| | | | | | | | | | |
|-----------|-----|-------|-------|-----|-----|-----|--------|-----|-----|
| ZMM5221B | 2.4 | 2.28 | 2.52 | 20 | 30 | 20 | -0.085 | 100 | 1.0 |
| ZMM5222B | 2.5 | 2.38 | 2.63 | 20 | 30 | 20 | -0.085 | 100 | 1.0 |
| ZMM5223B | 2.7 | 2.57 | 2.84 | 20 | 30 | 20 | -0.080 | 75 | 1.0 |
| ZMM5224B | 2.8 | 2.66 | 2.94 | 20 | 30 | 20 | -0.080 | 75 | 1.0 |
| ZMM5225B | 3.0 | 2.85 | 3.15 | 20 | 29 | 20 | -0.075 | 50 | 1.0 |
| ZMM5226B | 3.3 | 3.14 | 3.47 | 20 | 28 | 20 | -0.070 | 25 | 1.0 |
| ZMM5227B | 3.6 | 3.42 | 3.78 | 20 | 24 | 20 | -0.065 | 15 | 1.0 |
| ZMM5228B* | 3.9 | 3.71 | 4.10 | 20 | 23 | 20 | -0.060 | 10 | 1.0 |
| ZMM5229B | 4.3 | 4.09 | 4.52 | 20 | 22 | 20 | -0.055 | 5.0 | 1.0 |
| ZMM5230B* | 4.7 | 4.47 | 4.94 | 20 | 19 | 20 | +0.030 | 5.0 | 2.0 |
| ZMM5231B* | 5.1 | 4.85 | 5.36 | 20 | 17 | 20 | +0.030 | 5.0 | 2.0 |
| ZMM5232B* | 5.6 | 5.32 | 5.88 | 20 | 11 | 20 | +0.038 | 5.0 | 3.0 |
| ZMM5233B | 6.0 | 5.70 | 6.30 | 20 | 7.0 | 20 | +0.038 | 5.0 | 3.5 |
| ZMM5234B* | 6.2 | 5.89 | 6.51 | 20 | 7.0 | 20 | +0.045 | 5.0 | 4.0 |
| ZMM5235B* | 6.8 | 6.46 | 7.14 | 20 | 5.0 | 20 | +0.050 | 3.0 | 5.0 |
| ZMM5236B* | 7.5 | 7.13 | 7.88 | 20 | 6.0 | 20 | +0.058 | 3.0 | 6.0 |
| ZMM5237B | 8.2 | 7.79 | 8.61 | 20 | 8.0 | 20 | +0.062 | 3.0 | 6.5 |
| ZMM5238B | 8.7 | 8.27 | 9.14 | 20 | 8.0 | 20 | +0.065 | 3.0 | 6.5 |
| ZMM5239B* | 9.1 | 8.65 | 9.56 | 20 | 10 | 20 | +0.068 | 3.0 | 7.0 |
| ZMM5240B* | 10 | 9.50 | 10.50 | 20 | 17 | 20 | +0.075 | 3.0 | 8.0 |
| ZMM5241B | 11 | 10.45 | 11.55 | 20 | 22 | 20 | +0.076 | 2.0 | 8.4 |
| ZMM5242B* | 12 | 11.40 | 12.60 | 20 | 30 | 20 | +0.077 | 1.0 | 9.1 |
| ZMM5243B | 13 | 12.35 | 13.65 | 9.5 | 13 | 9.5 | +0.079 | 0.5 | 9.9 |
| ZMM5244B* | 14 | 13.30 | 14.70 | 9.0 | 15 | 9.0 | +0.082 | 0.1 | 10 |
| ZMM5245B* | 15 | 14.24 | 15.75 | 8.5 | 16 | 8.5 | +0.082 | 0.1 | 11 |
| ZMM5246B* | 16 | 15.20 | 16.80 | 7.8 | 17 | 7.8 | +0.083 | 0.1 | 12 |
| ZMM5247B | 17 | 16.15 | 17.85 | 7.4 | 19 | 7.4 | +0.084 | 0.1 | 13 |
| ZMM5248B* | 18 | 17.10 | 18.90 | 7.0 | 21 | 7.0 | +0.085 | 0.1 | 14 |
| ZMM5249B | 19 | 18.05 | 19.95 | 6.6 | 23 | 6.6 | +0.086 | 0.1 | 14 |
| ZMM5250B* | 20 | 19.00 | 21.00 | 6.2 | 25 | 6.2 | +0.086 | 0.1 | 15 |
| ZMM5251B* | 22 | 20.90 | 23.10 | 5.6 | 29 | 5.6 | +0.087 | 0.1 | 17 |
| ZMM5252B* | 24 | 22.80 | 25.20 | 5.2 | 33 | 5.2 | +0.087 | 0.1 | 18 |
| ZMM5253B | 25 | 23.75 | 26.25 | 5.0 | 35 | 5.0 | +0.089 | 0.1 | 19 |

1. Tested with pulses, T_p = 100ms.

2. Valid provided that electrodes are kept at ambient temperature.

(*) Preferred Part.

| Type Number | Zener Voltage Range ¹ | | | | Max. Zener Impedance ² | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|----|-----------------------------------|----|---------------------------------|------------------------------|---|
| | $V_Z @ I_{ZT}$ | | | | $Z_{ZK} @ I_{ZK}$ | | T_C | $I_R @ V_R$ | |
| | Nom V | Min V | Max V | mA | Ω | mA | % / °C | μA | V |

500mW Zener Diodes / miniMELF (Continued)



| | | | | | | | | | |
|-----------|----|-------|-------|-----|-----|-----|--------|-----|----|
| ZMM5254B* | 27 | 25.65 | 28.35 | 4.6 | 41 | 4.6 | +0.090 | 0.1 | 21 |
| ZMM5255B | 28 | 26.60 | 29.40 | 4.5 | 44 | 4.5 | +0.091 | 0.1 | 21 |
| ZMM5256B* | 30 | 28.50 | 31.50 | 4.2 | 49 | 4.2 | +0.091 | 0.1 | 23 |
| ZMM5257B* | 33 | 31.35 | 34.65 | 3.8 | 58 | 3.8 | +0.092 | 0.1 | 25 |
| ZMM5258B* | 36 | 34.20 | 37.80 | 3.4 | 70 | 3.4 | +0.093 | 0.1 | 27 |
| ZMM5259B | 39 | 37.05 | 40.95 | 3.2 | 80 | 3.2 | +0.094 | 0.1 | 30 |
| ZMM5260B | 43 | 40.85 | 45.15 | 3.0 | 93 | 3.0 | +0.095 | 0.1 | 33 |
| ZMM5261B | 47 | 44.65 | 49.35 | 2.7 | 105 | 2.7 | +0.095 | 0.1 | 36 |
| ZMM5262B | 51 | 48.45 | 53.55 | 2.5 | 125 | 2.5 | +0.096 | 0.1 | 39 |
| ZMM5263B | 56 | 53.20 | 58.80 | 2.2 | 150 | 2.2 | +0.096 | 0.1 | 43 |
| ZMM5264B | 60 | 57.00 | 63.00 | 2.1 | 170 | 2.1 | +0.097 | 0.1 | 46 |
| ZMM5265B | 62 | 58.90 | 65.10 | 2.0 | 185 | 2.0 | +0.097 | 0.1 | 47 |
| ZMM5266B | 68 | 64.60 | 71.40 | 1.8 | 230 | 1.8 | +0.097 | 0.1 | 52 |
| ZMM5267B | 75 | 71.25 | 78.75 | 1.7 | 270 | 1.7 | +0.098 | 0.1 | 56 |

1. Tested with pulses, $T_p = 100ms$.

2. Valid provided that electrodes are kept at ambient temperature.

(*) Preferred Part.

| Type Number | Zener Voltage Range ¹ | | | Zener Impedance | | | Max. Reverse Leakage Current @ V _R | | | Typical Temperature Coefficient |
|-------------|----------------------------------|-------|----|-----------------------------------|-----------------------------------|----|---|---|----------------|---------------------------------|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | Z _{ZK} @ I _{ZK} | | I _R @ T _A = 25°C | I _R @ T _A = 150°C | V _R | T _C |
| | Min V | Max V | mA | Ω | Ω | mA | μA | μA | V | % / °C |

500mW Zener Diodes / miniMELF



| | | | | | | | | | | |
|--------|------|------|-----|------|-------|-----|------|------|-----|----------------|
| ZMM2V4 | 2.28 | 2.56 | 5.0 | <85 | <600 | 1.0 | <50 | <100 | 1.0 | -0.09 to -0.06 |
| ZMM2V7 | 2.5 | 2.9 | 5.0 | <85 | <600 | 1.0 | <10 | <50 | 1.0 | -0.09 to -0.06 |
| ZMM3V0 | 2.8 | 3.2 | 5.0 | <90 | <600 | 1.0 | <4.0 | <40 | 1.0 | -0.08 to -0.05 |
| ZMM3V3 | 3.1 | 3.5 | 5.0 | <90 | <600 | 1.0 | <2.0 | <40 | 1.0 | -0.08 to -0.05 |
| ZMM3V6 | 3.4 | 3.8 | 5.0 | <90 | <600 | 1.0 | <2.0 | <40 | 1.0 | -0.08 to -0.05 |
| ZMM3V9 | 3.7 | 4.1 | 5.0 | <90 | <600 | 1.0 | <2.0 | <40 | 1.0 | -0.08 to -0.05 |
| ZMM4V3 | 4.0 | 4.6 | 5.0 | <90 | <600 | 1.0 | <1.0 | <20 | 1.0 | -0.06 to -0.03 |
| ZMM4V7 | 4.4 | 5.0 | 5.0 | <80 | <600 | 1.0 | <0.5 | <10 | 1.0 | -0.05 to +0.02 |
| ZMM5V1 | 4.8 | 5.4 | 5.0 | <60 | <550 | 1.0 | <0.1 | <2.0 | 1.0 | -0.02 to +0.02 |
| ZMM5V6 | 5.2 | 6.0 | 5.0 | <40 | <450 | 1.0 | <0.1 | <2.0 | 1.0 | -0.05 to +0.05 |
| ZMM6V2 | 5.8 | 6.6 | 5.0 | <10 | <200 | 1.0 | <0.1 | <2.0 | 2.0 | 0.03 to 0.06 |
| ZMM6V8 | 6.4 | 7.2 | 5.0 | <8.0 | <150 | 1.0 | <0.1 | <2.0 | 3.0 | 0.03 to 0.07 |
| ZMM7V5 | 7.0 | 7.9 | 5.0 | <7.0 | <50 | 1.0 | <0.1 | <2.0 | 5.0 | 0.03 to 0.07 |
| ZMM8V2 | 7.7 | 8.7 | 5.0 | <7.0 | <50 | 1.0 | <0.1 | <2.0 | 6.2 | 0.03 to 0.08 |
| ZMM9V1 | 8.5 | 9.6 | 5.0 | <10 | <50 | 1.0 | <0.1 | <2.0 | 6.8 | 0.03 to 0.09 |
| ZMM10 | 9.4 | 10.6 | 5.0 | <15 | <70 | 1.0 | <0.1 | <2.0 | 7.5 | 0.03 to 0.01 |
| ZMM11 | 10.4 | 11.6 | 5.0 | <20 | <70 | 1.0 | <0.1 | <2.0 | 8.2 | 0.03 to 0.11 |
| ZMM12 | 11.4 | 12.7 | 5.0 | <20 | <90 | 1.0 | <0.1 | <2.0 | 9.1 | 0.03 to 0.11 |
| ZMM13 | 12.4 | 14.1 | 5.0 | <26 | <110 | 1.0 | <0.1 | <2.0 | 10 | 0.03 to 0.11 |
| ZMM15 | 13.8 | 15.6 | 5.0 | <30 | <110 | 1.0 | <0.1 | <2.0 | 11 | 0.03 to 0.11 |
| ZMM16 | 15.3 | 17.1 | 5.0 | <40 | <170 | 1.0 | <0.1 | <2.0 | 12 | 0.03 to 0.11 |
| ZMM18 | 16.8 | 19.1 | 5.0 | <50 | <170 | 1.0 | <0.1 | <2.0 | 13 | 0.03 to 0.11 |
| ZMM20 | 18.8 | 21.2 | 5.0 | <55 | <220 | 1.0 | <0.1 | <2.0 | 15 | 0.03 to 0.11 |
| ZMM22 | 20.8 | 23.3 | 5.0 | <55 | <220 | 1.0 | <0.1 | <2.0 | 16 | 0.04 to 0.12 |
| ZMM24 | 22.8 | 25.6 | 5.0 | <80 | <220 | 1.0 | <0.1 | <2.0 | 18 | 0.04 to 0.12 |
| ZMM27 | 25.1 | 28.9 | 5.0 | <80 | <220 | 1.0 | <0.1 | <2.0 | 20 | 0.04 to 0.12 |
| ZMM30 | 28 | 32 | 5.0 | <80 | <220 | 1.0 | <0.1 | <2.0 | 22 | 0.04 to 0.12 |
| ZMM33 | 31 | 35 | 5.0 | <80 | <220 | 1.0 | <0.1 | <2.0 | 24 | 0.04 to 0.12 |
| ZMM36 | 34 | 38 | 5.0 | <80 | <220 | 1.0 | <0.1 | <2.0 | 27 | 0.04 to 0.12 |
| ZMM39 | 37 | 41 | 2.5 | <90 | <500 | 0.5 | <0.1 | <5.0 | 30 | 0.04 to 0.12 |
| ZMM43 | 40 | 46 | 2.5 | <90 | <600 | 0.5 | <0.1 | <5.0 | 33 | 0.04 to 0.12 |
| ZMM47 | 44 | 50 | 2.5 | <110 | <700 | 0.5 | <0.1 | <5.0 | 36 | 0.04 to 0.12 |
| ZMM51 | 48 | 54 | 2.5 | <125 | <700 | 0.5 | <0.1 | <10 | 39 | 0.04 to 0.12 |
| ZMM56 | 52 | 72 | 2.5 | <135 | <1000 | 0.5 | <0.1 | <10 | 43 | 0.04 to 0.12 |
| ZMM62 | 58 | 66 | 2.5 | <150 | <1000 | 0.5 | <0.1 | <10 | 47 | 0.04 to 0.12 |
| ZMM68 | 64 | 72 | 2.5 | <200 | <1000 | 0.5 | <0.1 | <10 | 51 | 0.04 to 0.12 |
| ZMM75 | 70 | 79 | 2.5 | <250 | <1500 | 0.5 | <0.1 | <10 | 56 | 0.04 to 0.12 |

1. Tested with pulses T_p = 20 ms.

| Type Number | Zener Voltage Range ¹ | | | | Max. Zener Impedance | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-----------------------------------|----------------------------------|-------|-------|-----|-----------------------------------|---|---------------------------------|---------------------------------|-----|
| | V _Z @ I _{ZT} | | | | Z _{ZT} @ I _{ZT} | Z _{ZK} @ I _{ZK} = 0.25mA | T _C | I _R @ V _R | |
| | Nom V | Min V | Max V | mA | Ω | Ω | % / °C | μA | V |
| 500mW Zener Diodes / DO-35 | | | | | | | | | |
| 1N5221B | 2.4 | 2.28 | 2.52 | 20 | 30 | 1200 | -0.085 | 100 | 1.0 |
| 1N5222B | 2.5 | 2.38 | 2.63 | 20 | 30 | 1250 | -0.085 | 100 | 1.0 |
| 1N5223B | 2.7 | 2.57 | 2.84 | 20 | 30 | 1300 | -0.080 | 75 | 1.0 |
| 1N5224B | 2.8 | 2.66 | 2.94 | 20 | 30 | 1400 | -0.080 | 75 | 1.0 |
| 1N5225B | 3.0 | 2.85 | 3.15 | 20 | 29 | 1600 | -0.075 | 50 | 1.0 |
| 1N5226B* | 3.3 | 3.14 | 3.47 | 20 | 28 | 1600 | -0.070 | 25 | 1.0 |
| 1N5227B* | 3.6 | 3.42 | 3.78 | 20 | 24 | 1700 | -0.065 | 15 | 1.0 |
| 1N5228B* | 3.9 | 3.71 | 4.10 | 20 | 23 | 1900 | -0.060 | 10 | 1.0 |
| 1N5229B* | 4.3 | 4.09 | 4.52 | 20 | 22 | 2000 | -0.055 | 5.0 | 1.0 |
| 1N5230B* | 4.7 | 4.47 | 4.94 | 20 | 19 | 1900 | +0.030 | 5.0 | 2.0 |
| 1N5231B* | 5.1 | 4.85 | 5.36 | 20 | 17 | 1600 | +0.030 | 5.0 | 2.0 |
| 1N5232B* | 5.6 | 5.32 | 5.88 | 20 | 11 | 1600 | +0.038 | 5.0 | 3.0 |
| 1N5233B* | 6.0 | 5.70 | 6.30 | 20 | 7.0 | 1600 | +0.038 | 5.0 | 3.5 |
| 1N5234B* | 6.2 | 5.89 | 6.51 | 20 | 7.0 | 1000 | +0.045 | 5.0 | 4.0 |
| 1N5235B* | 6.8 | 6.46 | 7.14 | 20 | 5.0 | 750 | +0.050 | 3.0 | 5.0 |
| 1N5236B* | 7.5 | 7.13 | 7.88 | 20 | 6.0 | 500 | +0.058 | 3.0 | 6.0 |
| 1N5237B* | 8.2 | 7.79 | 8.61 | 20 | 8.0 | 500 | +0.062 | 3.0 | 6.5 |
| 1N5238B | 8.7 | 8.27 | 9.14 | 20 | 8.0 | 600 | +0.065 | 3.0 | 6.5 |
| 1N5239B* | 9.1 | 8.65 | 9.56 | 20 | 10 | 600 | +0.068 | 3.0 | 7.0 |
| 1N5240B* | 10 | 9.50 | 10.50 | 20 | 17 | 600 | +0.075 | 3.0 | 8.0 |
| 1N5241B | 11 | 10.45 | 11.55 | 20 | 22 | 600 | +0.076 | 2.0 | 8.4 |
| 1N5242B* | 12 | 11.40 | 12.60 | 20 | 30 | 600 | +0.077 | 1.0 | 9.1 |
| 1N5243B* | 13 | 12.35 | 13.65 | 9.5 | 13 | 600 | +0.079 | 0.5 | 9.9 |
| 1N5244B | 14 | 13.30 | 14.70 | 9.0 | 15 | 600 | +0.082 | 0.1 | 10 |
| 1N5245B* | 15 | 14.25 | 15.75 | 8.5 | 16 | 600 | +0.082 | 0.1 | 11 |
| 1N5246B* | 16 | 15.20 | 16.80 | 7.8 | 17 | 600 | +0.083 | 0.1 | 12 |
| 1N5247B* | 17 | 16.15 | 17.85 | 7.4 | 19 | 600 | +0.084 | 0.1 | 13 |
| 1N5248B* | 18 | 17.10 | 18.90 | 7.0 | 21 | 600 | +0.085 | 0.1 | 14 |
| 1N5249B | 19 | 18.05 | 19.95 | 6.6 | 23 | 600 | +0.086 | 0.1 | 14 |
| 1N5250B | 20 | 19.00 | 21.00 | 6.2 | 25 | 600 | +0.086 | 0.1 | 15 |
| 1N5251B* | 22 | 20.90 | 23.10 | 5.6 | 29 | 600 | +0.087 | 0.1 | 17 |
| 1N5252B | 24 | 22.80 | 25.20 | 5.2 | 33 | 600 | +0.087 | 0.1 | 18 |
| 1N5253B | 25 | 23.75 | 26.25 | 5.0 | 35 | 600 | +0.089 | 0.1 | 19 |
| 1N5254B | 27 | 25.65 | 28.35 | 4.6 | 41 | 600 | +0.090 | 0.1 | 21 |
| 1N5255B | 28 | 26.60 | 29.40 | 4.5 | 44 | 600 | +0.091 | 0.1 | 21 |
| 1N5256B* | 30 | 28.50 | 31.50 | 4.2 | 49 | 600 | +0.091 | 0.1 | 23 |
| 1N5257B* | 33 | 31.35 | 34.65 | 3.8 | 58 | 700 | +0.092 | 0.1 | 25 |

1. Measured under thermal equilibrium and DC (I_{ZT}) test conditions.

(*) Preferred Part.

| Type Number | Zener Voltage Range ¹ | | | | Max. Zener Impedance | | Typical Temperature Coefficient | Max. Reverse Leakage Current | |
|-------------|----------------------------------|-------|-------|----|-----------------------------------|---|---------------------------------|---------------------------------|---|
| | V _Z @ I _{ZT} | | | | Z _{ZT} @ I _{ZT} | Z _{ZK} @ I _{ZK} = 0.25mA | T _C | I _R @ V _R | |
| | Nom V | Min V | Max V | mA | Ω | Ω | % / °C | μA | V |

500mW Zener Diodes / DO-35 (Continued)



| | | | | | | | | | |
|----------|----|-------|-------|-----|-----|------|--------|-----|----|
| 1N5258B | 36 | 34.20 | 37.80 | 3.4 | 70 | 700 | +0.093 | 0.1 | 27 |
| 1N5259B | 39 | 37.05 | 40.95 | 3.2 | 80 | 800 | +0.094 | 0.1 | 30 |
| 1N5260B | 43 | 40.85 | 45.15 | 3.0 | 93 | 900 | +0.095 | 0.1 | 33 |
| 1N5261B | 47 | 44.65 | 49.35 | 2.7 | 105 | 1000 | +0.095 | 0.1 | 36 |
| 1N5262B | 51 | 48.45 | 53.55 | 2.5 | 125 | 1100 | +0.096 | 0.1 | 39 |
| 1N5263B* | 56 | 53.20 | 58.80 | 2.2 | 150 | 1300 | +0.096 | 0.1 | 43 |
| 1N5264B | 60 | 57.00 | 63.00 | 2.1 | 170 | 1400 | +0.097 | 0.1 | 46 |
| 1N5265B | 62 | 58.90 | 65.10 | 2.0 | 185 | 1400 | +0.097 | 0.1 | 47 |
| 1N5266B | 68 | 64.60 | 71.40 | 1.8 | 230 | 1600 | +0.097 | 0.1 | 52 |
| 1N5267B | 75 | 71.25 | 78.75 | 1.7 | 270 | 1700 | +0.098 | 0.1 | 56 |

1. Measured under thermal equilibrium and DC (I_{ZT}) test conditions.

(*) Preferred Part.

| Type Number | Zener Voltage Range ¹ | | | Zener Impedance | | | Max. Reverse Leakage Current @ V _R | | | Typical Temperature Coefficient |
|-------------|----------------------------------|-------|----|-----------------------------------|-----------------------------------|----|---|---|----------------|---------------------------------|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | Z _{ZT} @ I _{ZK} | | I _R @ T _A = 25°C | I _R @ T _A = 150°C | V _R | T _C |
| | Min V | Max V | mA | Ω | Ω | mA | μA | μA | V | % / °C |

500mW Zener Diodes / DO-35



| | | | | | | | | | | |
|-----------|------|------|-----|-------|--------|-----|-------|-------|-----|----------------|
| BZX55C2V4 | 2.28 | 2.56 | 5.0 | < 85 | < 600 | 1.0 | < 50 | < 100 | 1.0 | -0.09 to -0.06 |
| BZX55C2V7 | 2.5 | 2.9 | 5.0 | < 85 | < 600 | 1.0 | < 10 | < 50 | 1.0 | -0.09 to -0.06 |
| BZX55C3V0 | 2.8 | 3.2 | 5.0 | < 85 | < 600 | 1.0 | < 4.0 | < 40 | 1.0 | -0.08 to -0.05 |
| BZX55C3V3 | 3.1 | 3.5 | 5.0 | < 85 | < 600 | 1.0 | < 2.0 | < 40 | 1.0 | -0.08 to -0.05 |
| BZX55C3V6 | 3.4 | 3.8 | 5.0 | < 85 | < 600 | 1.0 | < 2.0 | < 40 | 1.0 | -0.08 to -0.05 |
| BZX55C3V9 | 3.7 | 4.1 | 5.0 | < 85 | < 600 | 1.0 | < 2.0 | < 40 | 1.0 | -0.08 to -0.05 |
| BZX55C4V3 | 4.0 | 4.6 | 5.0 | < 75 | < 600 | 1.0 | < 1.0 | < 20 | 1.0 | -0.06 to -0.03 |
| BZX55C4V7 | 4.4 | 5.0 | 5.0 | < 60 | < 600 | 1.0 | < 0.5 | < 10 | 1.0 | -0.05 to 0.02 |
| BZX55C5V1 | 4.8 | 5.4 | 5.0 | < 35 | < 550 | 1.0 | < 0.1 | < 2.0 | 1.0 | -0.02 to 0.02 |
| BZX55C5V6 | 5.2 | 6.0 | 5.0 | < 25 | < 450 | 1.0 | < 0.1 | < 2.0 | 1.0 | -0.05 to 0.05 |
| BZX55C6V2 | 5.8 | 6.6 | 5.0 | < 10 | < 200 | 1.0 | < 0.1 | < 2.0 | 2.0 | 0.03 to 0.06 |
| BZX55C6V8 | 6.4 | 7.2 | 5.0 | < 8.0 | < 150 | 1.0 | < 0.1 | < 2.0 | 3.0 | 0.03 to 0.07 |
| BZX55C7V5 | 7.0 | 7.9 | 5.0 | < 7.0 | < 50 | 1.0 | < 0.1 | < 2.0 | 5.0 | 0.03 to 0.07 |
| BZX55C8V2 | 7.7 | 8.7 | 5.0 | < 7.0 | < 50 | 1.0 | < 0.1 | < 2.0 | 6.2 | 0.03 to 0.08 |
| BZX55C9V1 | 8.5 | 9.6 | 5.0 | < 10 | < 50 | 1.0 | < 0.1 | < 2.0 | 6.8 | 0.03 to 0.09 |
| BZX55C10 | 9.4 | 10.6 | 5.0 | < 15 | < 70 | 1.0 | < 0.1 | < 2.0 | 7.5 | 0.03 to 0.10 |
| BZX55C11 | 10.4 | 11.6 | 5.0 | < 20 | < 70 | 1.0 | < 0.1 | < 2.0 | 8.2 | 0.03 to 0.11 |
| BZX55C12 | 11.4 | 12.7 | 5.0 | < 20 | < 90 | 1.0 | < 0.1 | < 2.0 | 9.1 | 0.03 to 0.11 |
| BZX55C13 | 12.4 | 14.1 | 5.0 | < 26 | < 110 | 1.0 | < 0.1 | < 2.0 | 10 | 0.03 to 0.11 |
| BZX55C15 | 13.8 | 15.6 | 5.0 | < 30 | < 110 | 1.0 | < 0.1 | < 2.0 | 11 | 0.03 to 0.11 |
| BZX55C16 | 15.3 | 17.1 | 5.0 | < 40 | < 170 | 1.0 | < 0.1 | < 2.0 | 12 | 0.03 to 0.11 |
| BZX55C18 | 16.8 | 19.1 | 5.0 | < 50 | < 170 | 1.0 | < 0.1 | < 2.0 | 13 | 0.03 to 0.11 |
| BZX55C20 | 18.8 | 21.2 | 5.0 | < 55 | < 220 | 1.0 | < 0.1 | < 2.0 | 15 | 0.03 to 0.11 |
| BZX55C22 | 20.8 | 23.3 | 5.0 | < 55 | < 220 | 1.0 | < 0.1 | < 2.0 | 16 | 0.04 to 0.12 |
| BZX55C24 | 22.8 | 25.6 | 5.0 | < 80 | < 220 | 1.0 | < 0.1 | < 2.0 | 18 | 0.04 to 0.12 |
| BZX55C27 | 25.1 | 28.9 | 5.0 | < 80 | < 220 | 1.0 | < 0.1 | < 2.0 | 20 | 0.04 to 0.12 |
| BZX55C30 | 28 | 32 | 5.0 | < 80 | < 220 | 1.0 | < 0.1 | < 2.0 | 22 | 0.04 to 0.12 |
| BZX55C33 | 31 | 35 | 5.0 | < 80 | < 220 | 1.0 | < 0.1 | < 2.0 | 24 | 0.04 to 0.12 |
| BZX55C36 | 34 | 38 | 5.0 | < 80 | < 220 | 1.0 | < 0.1 | < 2.0 | 27 | 0.04 to 0.12 |
| BZX55C39 | 37 | 41 | 2.5 | < 90 | < 500 | 0.5 | < 0.1 | < 5.0 | 30 | 0.04 to 0.12 |
| BZX55C43 | 40 | 46 | 2.5 | < 90 | < 600 | 0.5 | < 0.1 | < 5.0 | 33 | 0.04 to 0.12 |
| BZX55C47 | 44 | 50 | 2.5 | < 110 | < 700 | 0.5 | < 0.1 | < 5.0 | 36 | 0.04 to 0.12 |
| BZX55C51 | 48 | 54 | 2.5 | < 125 | < 700 | 0.5 | < 0.1 | < 10 | 39 | 0.04 to 0.12 |
| BZX55C56 | 52 | 60 | 2.5 | < 135 | < 1000 | 0.5 | < 0.1 | < 10 | 43 | 0.04 to 0.12 |
| BZX55C62 | 58 | 66 | 2.5 | < 150 | < 1000 | 0.5 | < 0.1 | < 10 | 47 | 0.04 to 0.12 |
| BZX55C68 | 64 | 72 | 2.5 | < 200 | < 1000 | 0.5 | < 0.1 | < 10 | 51 | 0.04 to 0.12 |
| BZX55C75 | 70 | 79 | 2.5 | < 250 | < 1500 | 0.5 | < 0.1 | < 10 | 56 | 0.04 to 0.12 |

1. Measured under thermal equilibrium and DC (I_{ZT}) test conditions.

| Type Number | Zener Voltage Range ¹ | | Max. Zener Impedance | | | | Max. Reverse Leakage Current | | Max. Zener Current ² |
|-------------|----------------------------------|-------|----------------------|----|-------------------|----|------------------------------|---|---------------------------------|
| | $V_Z @ I_{ZT}$ | | $Z_{ZT} @ I_{ZT}$ | | $Z_{ZK} @ I_{ZK}$ | | $I_R @ V_R$ | | I_{ZM} |
| | Min V | Max V | Ω | mA | Ω | mA | μA | V | mA |

1.0W Zener Diodes / SMA

NEW



| | | | | | | | | | |
|---------|-------|-------|-----|-----|-----|-----|------|------|-----|
| SMAZ3V3 | 3.13 | 3.46 | 2.0 | 100 | 500 | 2.0 | 300 | 1.0 | 303 |
| SMAZ3V6 | 3.42 | 3.78 | 2.0 | 100 | 500 | 2.0 | 150 | 1.0 | 278 |
| SMAZ3V9 | 3.705 | 4.09 | 2.0 | 100 | 500 | 2.0 | 5.0 | 1.0 | 256 |
| SMAZ4V3 | 4.08 | 4.51 | 2.0 | 100 | 500 | 2.0 | 50 | 1.0 | 232 |
| SMAZ4V7 | 4.46 | 4.93 | 2.0 | 100 | 500 | 2.0 | 10.0 | 1.0 | 212 |
| SMAZ5V1 | 4.84 | 5.35 | 5.0 | 100 | 350 | 2.0 | 5.0 | 1.0 | 196 |
| SMAZ5V6 | 5.32 | 5.88 | 2.0 | 100 | 250 | 2.0 | 5.0 | 1.0 | 179 |
| SMAZ6V2 | 5.89 | 6.51 | 2.0 | 100 | 200 | 2.0 | 5.0 | 1.0 | 161 |
| SMAZ6V8 | 6.46 | 7.14 | 2.0 | 100 | 200 | 1.0 | 5.0 | 1.0 | 147 |
| SMAZ7V5 | 7.13 | 7.88 | 2.0 | 100 | 450 | 1.0 | 5.0 | 2.0 | 133 |
| SMAZ8V2 | 7.79 | 8.61 | 2.0 | 100 | 200 | 1.0 | 5.0 | 3.5 | 122 |
| SMAZ9V1 | 8.65 | 9.56 | 4.0 | 50 | 200 | 1.0 | 5.0 | 3.5 | 110 |
| SMAZ10 | 9.50 | 10.50 | 4.0 | 50 | 200 | 1.0 | 1.0 | 8.3 | 100 |
| SMAZ12 | 11.40 | 12.60 | 7.0 | 50 | 150 | 1.0 | 1.0 | 9.1 | 83 |
| SMAZ15 | 14.25 | 15.75 | 10 | 50 | 150 | 1.0 | 1.0 | 11.4 | 67 |
| SMAZ16 | 15.20 | 16.80 | 15 | 25 | 150 | 1.0 | 0.5 | 12.2 | 63 |
| SMAZ18 | 17.10 | 18.90 | 15 | 25 | 150 | 1.0 | 0.5 | 13.7 | 56 |
| SMAZ20 | 19.00 | 21.00 | 15 | 25 | 180 | 1.0 | 0.5 | 15.2 | 50 |
| SMAZ22 | 20.90 | 23.10 | 15 | 25 | 180 | 1.0 | 0.5 | 16.7 | 46 |
| SMAZ24 | 22.80 | 25.20 | 15 | 25 | 180 | 1.0 | 0.5 | 18.2 | 42 |
| SMAZ27 | 25.65 | 28.35 | 15 | 25 | 200 | 1.0 | 0.5 | 20.5 | 37 |
| SMAZ30 | 28.50 | 31.50 | 15 | 25 | 250 | 1.0 | 0.5 | 22.8 | 33 |
| SMAZ33 | 31.35 | 34.65 | 15 | 25 | 300 | 1.0 | 0.5 | 25.1 | 30 |
| SMAZ36 | 34.20 | 37.80 | 40 | 10 | 350 | 1.0 | 0.5 | 27.4 | 28 |
| SMAZ39 | 37.05 | 40.95 | 40 | 10 | 450 | 1.0 | 0.5 | 29.6 | 26 |

1. Tested with I_{ZT} current pulses. Pulse width = 50ms.

2. Device on fiberglass substrate.

| Type Number | Nominal Zener Voltage Range ¹ | | | | Max. Zener Impedance | | | Max. Reverse Leakage Current | | Max. Zener Current |
|-------------|--|-------|-------|----|-----------------------------------|-----------------------------------|----|---------------------------------|---|--------------------|
| | V _Z @ I _{ZT} | | | | Z _{ZT} @ I _{ZT} | Z _{ZK} @ I _{ZK} | | I _R @ V _R | | I _{ZM} |
| | Nom V | Min V | Max V | mA | Ω | Ω | mA | μA | V | mA |

1.0W Zener Diodes / DO-41



| | | | | | | | | | | |
|----------|-----|-------|-------|------|-----|------|------|-----|------|-----|
| 1N4728A* | 3.3 | 3.14 | 3.47 | 76 | 10 | 400 | 1.0 | 100 | 1.0 | 303 |
| 1N4729A* | 3.6 | 3.42 | 3.78 | 69 | 10 | 400 | 1.0 | 100 | 1.0 | 278 |
| 1N4730A | 3.9 | 3.71 | 4.10 | 64 | 9.0 | 400 | 1.0 | 50 | 1.0 | 256 |
| 1N4731A | 4.3 | 4.09 | 4.52 | 58 | 9.0 | 400 | 1.0 | 10 | 1.0 | 233 |
| 1N4732A | 4.7 | 4.47 | 4.94 | 53 | 8.0 | 500 | 1.0 | 10 | 1.0 | 213 |
| 1N4733A* | 5.1 | 4.85 | 5.36 | 49 | 7.0 | 550 | 1.0 | 10 | 1.0 | 196 |
| 1N4734A* | 5.6 | 5.32 | 5.88 | 45 | 5.0 | 600 | 1.0 | 10 | 2.0 | 178 |
| 1N4735A* | 6.2 | 5.89 | 6.51 | 41 | 2.0 | 700 | 1.0 | 10 | 3.0 | 161 |
| 1N4736A* | 6.8 | 6.46 | 7.14 | 37 | 3.5 | 700 | 1.0 | 10 | 4.0 | 147 |
| 1N4737A | 7.5 | 7.13 | 7.88 | 34 | 4.0 | 700 | 0.5 | 10 | 5.0 | 133 |
| 1N4738A* | 8.2 | 7.79 | 8.61 | 31 | 4.5 | 700 | 0.5 | 10 | 6.0 | 122 |
| 1N4739A | 9.1 | 8.65 | 9.56 | 28 | 5.0 | 700 | 0.5 | 10 | 7.0 | 110 |
| 1N4740A* | 10 | 9.50 | 10.50 | 25 | 7.0 | 700 | 0.25 | 10 | 7.6 | 100 |
| 1N4741A* | 11 | 10.45 | 11.55 | 23 | 8.0 | 700 | 0.25 | 5.0 | 8.4 | 91 |
| 1N4742A* | 12 | 11.40 | 12.60 | 21 | 9.0 | 700 | 0.25 | 5.0 | 9.1 | 83 |
| 1N4743A* | 13 | 12.35 | 13.65 | 19 | 10 | 700 | 0.25 | 5.0 | 9.9 | 77 |
| 1N4744A* | 15 | 14.25 | 15.75 | 17 | 14 | 700 | 0.25 | 5.0 | 11.4 | 67 |
| 1N4745A* | 16 | 15.20 | 16.80 | 15.5 | 16 | 700 | 0.25 | 5.0 | 12.2 | 63 |
| 1N4746A* | 18 | 17.10 | 18.90 | 14 | 20 | 750 | 0.25 | 5.0 | 13.7 | 56 |
| 1N4747A* | 20 | 19.00 | 21.00 | 12.5 | 22 | 750 | 0.25 | 5.0 | 15.2 | 50 |
| 1N4748A* | 22 | 20.90 | 23.10 | 11.5 | 23 | 750 | 0.25 | 5.0 | 16.7 | 45 |
| 1N4749A | 24 | 22.80 | 25.20 | 10.5 | 25 | 750 | 0.25 | 5.0 | 18.2 | 42 |
| 1N4750A* | 27 | 25.65 | 28.35 | 9.5 | 35 | 750 | 0.25 | 5.0 | 20.6 | 37 |
| 1N4751A* | 30 | 28.50 | 31.50 | 8.5 | 40 | 1000 | 0.25 | 5.0 | 22.8 | 33 |
| 1N4752A | 33 | 31.35 | 34.65 | 7.5 | 45 | 1000 | 0.25 | 5.0 | 25.1 | 30 |
| 1N4753A* | 36 | 34.20 | 37.80 | 7.0 | 50 | 1000 | 0.25 | 5.0 | 27.4 | 28 |
| 1N4754A | 39 | 37.05 | 40.95 | 6.5 | 60 | 1000 | 0.25 | 5.0 | 29.7 | 26 |
| 1N4755A | 43 | 40.85 | 45.15 | 6.0 | 70 | 1500 | 0.25 | 5.0 | 32.7 | 23 |
| 1N4756A | 47 | 44.65 | 49.35 | 5.5 | 80 | 1500 | 0.25 | 5.0 | 35.8 | 21 |
| 1N4757A | 51 | 48.45 | 53.55 | 5.0 | 95 | 1500 | 0.25 | 5.0 | 38.8 | 19 |
| 1N4758A* | 56 | 53.20 | 58.80 | 4.5 | 110 | 2000 | 0.25 | 5.0 | 42.6 | 18 |
| 1N4759A | 62 | 58.90 | 65.10 | 4.0 | 125 | 2000 | 0.25 | 5.0 | 47.1 | 16 |
| 1N4760A | 68 | 64.60 | 71.40 | 3.7 | 150 | 2000 | 0.25 | 5.0 | 51.7 | 15 |
| 1N4761A | 75 | 71.25 | 78.75 | 3.3 | 175 | 2000 | 0.25 | 5.0 | 56.0 | 13 |

1. Measured under thermal equilibrium and DC (I_{ZT}) test conditions. Standard voltage tolerance is 5%.

(*) Preferred Part.

| Type Number | Zener Voltage Range ¹ | | | Zener Impedance | | | Max. Reverse Leakage Current | | Max. Zener Current |
|-------------|----------------------------------|-------|----|-----------------------------------|-----------------------------------|----|---------------------------------|---|--------------------|
| | V _Z @ I _{ZT} | | | Z _{ZT} @ I _{ZT} | Z _{ZT} @ I _{ZK} | | I _R @ V _R | | I _{ZM} |
| | Min V | Max V | mA | Ω | Ω | mA | μA | V | mA |


1.3W Zener Diodes / DO-41



| | | | | | | | | | |
|-----------|------|------|-----|-----|------|------|-----|-----|-----|
| BZX85C2V7 | 2.5 | 2.9 | 80 | 20 | 400 | 1.0 | 150 | 1.0 | 481 |
| BZX85C3V0 | 2.8 | 3.2 | 80 | 20 | 400 | 1.0 | 100 | 1.0 | 433 |
| BZX85C3V3 | 3.1 | 3.5 | 80 | 20 | 400 | 1.0 | 40 | 1.0 | 394 |
| BZX85C3V6 | 3.4 | 3.8 | 60 | 20 | 500 | 1.0 | 20 | 1.0 | 361 |
| BZX85C3V9 | 3.7 | 4.1 | 60 | 15 | 500 | 1.0 | 10 | 1.0 | 333 |
| BZX85C4V3 | 4.0 | 4.6 | 50 | 13 | 500 | 1.0 | 3.0 | 1.0 | 302 |
| BZX85C4V7 | 4.4 | 5.0 | 45 | 13 | 600 | 1.0 | 3.0 | 1.0 | 277 |
| BZX85C5V1 | 4.8 | 5.4 | 45 | 10 | 500 | 1.0 | 1.0 | 1.5 | 255 |
| BZX85C5V6 | 5.2 | 6.0 | 45 | 7.0 | 400 | 1.0 | 1.0 | 2.0 | 232 |
| BZX85C6V2 | 5.8 | 6.6 | 35 | 4.0 | 300 | 1.0 | 1.0 | 3.0 | 210 |
| BZX85C6V8 | 6.4 | 7.2 | 35 | 3.5 | 300 | 1.0 | 1.0 | 4.0 | 191 |
| BZX85C7V5 | 7.0 | 7.9 | 35 | 3.0 | 200 | 0.5 | 1.0 | 4.5 | 173 |
| BZX85C8V2 | 7.7 | 8.7 | 25 | 5.0 | 200 | 0.5 | 1.0 | 6.2 | 159 |
| BZX85C9V1 | 8.5 | 9.6 | 25 | 5.0 | 200 | 0.5 | 1.0 | 6.8 | 143 |
| BZX85C10 | 9.4 | 10.6 | 25 | 7.0 | 200 | 0.5 | 0.5 | 7.0 | 130 |
| BZX85C11 | 10.4 | 11.6 | 20 | 8.0 | 300 | 0.5 | 0.5 | 8.2 | 118 |
| BZX85C12 | 11.4 | 12.7 | 20 | 9.0 | 350 | 0.5 | 0.5 | 9.1 | 108 |
| BZX85C13 | 12.4 | 14.1 | 20 | 10 | 400 | 0.5 | 0.5 | 10 | 100 |
| BZX85C15 | 13.8 | 15.6 | 15 | 15 | 500 | 0.5 | 0.5 | 11 | 87 |
| BZX85C16 | 15.3 | 17.1 | 15 | 15 | 500 | 0.5 | 0.5 | 12 | 81 |
| BZX85C18 | 16.8 | 19.1 | 15 | 20 | 500 | 0.5 | 0.5 | 13 | 72 |
| BZX85C20 | 18.8 | 21.2 | 10 | 24 | 600 | 0.5 | 0.5 | 15 | 65 |
| BZX85C22 | 20.8 | 23.3 | 10 | 25 | 600 | 0.5 | 0.5 | 16 | 59 |
| BZX85C24 | 22.8 | 25.6 | 10 | 25 | 600 | 0.5 | 0.5 | 18 | 54 |
| BZX85C27 | 25.1 | 28.9 | 8.0 | 30 | 750 | 0.25 | 0.5 | 20 | 48 |
| BZX85C30 | 28 | 32 | 8.0 | 30 | 1000 | 0.25 | 0.5 | 22 | 43 |
| BZX85C33 | 31 | 35 | 8.0 | 35 | 1000 | 0.25 | 0.5 | 24 | 39 |
| BZX85C36 | 34 | 38 | 8.0 | 40 | 1000 | 0.25 | 0.5 | 27 | 36 |
| BZX85C39 | 37 | 41 | 6.0 | 50 | 1000 | 0.25 | 0.5 | 30 | 33 |
| BZX85C43 | 40 | 46 | 6.0 | 50 | 1000 | 0.25 | 0.5 | 33 | 30 |
| BZX85C47 | 44 | 50 | 4.0 | 90 | 1500 | 0.25 | 0.5 | 36 | 28 |
| BZX85C51 | 48 | 54 | 4.0 | 115 | 1500 | 0.25 | 0.5 | 39 | 25 |
| BZX85C56 | 52 | 60 | 4.0 | 120 | 2000 | 0.25 | 0.5 | 43 | 23 |
| BZX85C62 | 58 | 66 | 4.0 | 125 | 2000 | 0.25 | 0.5 | 47 | 21 |
| BZX85C68 | 64 | 72 | 4.0 | 130 | 2000 | 0.25 | 0.5 | 51 | 19 |
| BZX85C75 | 70 | 79 | 4.0 | 135 | 2000 | 0.25 | 0.5 | 56 | 17 |

1. Measured under thermal equilibrium and DC (I_{ZT}) test conditions.

Transient Voltage Suppressors

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|---|------------------|---|------|----------------|-----------------------------------|----------------------------------|------|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |
| 400W Transient Voltage Suppressors / SMA  | | | | | | | |
| SMAJ5.0(C)A | 5.0 | 6.40 | 7.00 | 10 | 800/1600 | 9.2 | 43.5 |
| SMAJ6.0(C)A | 6.0 | 6.67 | 7.37 | 10 | 800/1600 | 10.3 | 38.8 |
| SMAJ6.5(C)A | 6.5 | 7.22 | 7.98 | 10 | 500/1000 | 11.2 | 35.7 |
| SMAJ7.0(C)A | 7.0 | 7.78 | 8.60 | 10 | 200/400 | 12.0 | 33.3 |
| SMAJ7.5(C)A | 7.5 | 8.33 | 9.21 | 1.0 | 100/200 | 12.9 | 31.0 |
| SMAJ8.0(C)A | 8.0 | 8.89 | 9.83 | 1.0 | 50/100 | 13.6 | 29.4 |
| SMAJ8.5(C)A | 8.5 | 9.44 | 10.4 | 1.0 | 10/20 | 14.4 | 27.7 |
| SMAJ9.0(C)A | 9.0 | 10.0 | 11.1 | 1.0 | 5/10 | 15.4 | 26.0 |
| SMAJ10(C)A | 10 | 11.1 | 12.3 | 1.0 | 5/10 | 17.0 | 23.5 |
| SMAJ11(C)A | 11 | 12.2 | 13.5 | 1.0 | 5.0 | 18.2 | 22.0 |
| SMAJ12(C)A | 12 | 13.3 | 14.7 | 1.0 | 5.0 | 19.9 | 20.1 |
| SMAJ13(C)A | 13 | 14.4 | 15.9 | 1.0 | 5.0 | 21.5 | 18.6 |
| SMAJ14(C)A | 14 | 15.6 | 17.2 | 1.0 | 5.0 | 23.2 | 17.2 |
| SMAJ15(C)A | 15 | 16.7 | 18.5 | 1.0 | 5.0 | 24.4 | 16.4 |
| SMAJ16(C)A | 16 | 17.8 | 19.7 | 1.0 | 5.0 | 26.0 | 15.3 |
| SMAJ17(C)A | 17 | 18.9 | 20.9 | 1.0 | 5.0 | 27.6 | 14.5 |
| SMAJ18(C)A | 18 | 20.0 | 22.1 | 1.0 | 5.0 | 29.2 | 13.7 |
| SMAJ20(C)A | 20 | 22.2 | 24.5 | 1.0 | 5.0 | 32.4 | 12.3 |
| SMAJ22(C)A | 22 | 24.4 | 26.9 | 1.0 | 5.0 | 35.5 | 11.2 |
| SMAJ24(C)A | 24 | 26.7 | 29.5 | 1.0 | 5.0 | 38.9 | 10.3 |
| SMAJ26(C)A | 26 | 28.9 | 25.3 | 1.0 | 5.0 | 42.1 | 9.5 |
| SMAJ28(C)A | 28 | 31.1 | 34.4 | 1.0 | 5.0 | 45.4 | 8.8 |
| SMAJ30(C)A | 30 | 33.3 | 36.8 | 1.0 | 5.0 | 48.4 | 8.3 |
| SMAJ33(C)A | 33 | 36.7 | 40.6 | 1.0 | 5.0 | 53.3 | 7.5 |
| SMAJ36(C)A | 36 | 40.0 | 44.2 | 1.0 | 5.0 | 58.1 | 6.9 |
| SMAJ40(C)A | 40 | 44.4 | 49.1 | 1.0 | 5.0 | 64.5 | 6.2 |
| SMAJ43(C)A | 43 | 47.8 | 52.8 | 1.0 | 5.0 | 69.4 | 5.7 |
| SMAJ45(C)A | 45 | 50.0 | 55.3 | 1.0 | 5.0 | 72.7 | 5.5 |
| SMAJ48(C)A | 48 | 53.3 | 58.9 | 1.0 | 5.0 | 77.4 | 5.2 |
| SMAJ51(C)A | 51 | 56.7 | 62.7 | 1.0 | 5.0 | 82.4 | 4.9 |
| SMAJ54(C)A | 54 | 60.0 | 66.3 | 1.0 | 5.0 | 87.1 | 4.6 |
| SMAJ58(C)A | 58 | 64.4 | 71.2 | 1.0 | 5.0 | 93.6 | 4.3 |
| SMAJ60(C)A | 60 | 66.7 | 73.7 | 1.0 | 5.0 | 96.8 | 4.1 |
| SMAJ64(C)A | 64 | 71.1 | 78.6 | 1.0 | 5.0 | 103 | 3.9 |
| SMAJ70(C)A | 70 | 77.8 | 86.0 | 1.0 | 5.0 | 113 | 3.5 |

1. 'C' suffix denotes bi-directional device.
2. V_{BR} measured with I_T current pulse = 300μs.

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|--------------------------|------------------|---|------|----------------|-----------------------------------|----------------------------------|---|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |

400W Transient Voltage Suppressors / SMA (Continued)



| | | | | | | | |
|-------------|-----|-------|-------|-----|-----|-----|-----|
| SMAJ75(C)A | 75 | 83.3 | 92.1 | 1.0 | 5.0 | 121 | 3.3 |
| SMAJ78(C)A | 78 | 86.7 | 95.8 | 1.0 | 5.0 | 126 | 2.2 |
| SMAJ85(C)A | 85 | 94.4 | 104.0 | 1.0 | 5.0 | 137 | 2.9 |
| SMAJ90(C)A | 90 | 100.0 | 111.0 | 1.0 | 5.0 | 146 | 2.7 |
| SMAJ100(C)A | 100 | 111.0 | 123.0 | 1.0 | 5.0 | 162 | 2.5 |
| SMAJ110(C)A | 110 | 122.0 | 135.0 | 1.0 | 5.0 | 177 | 2.3 |
| SMAJ120(C)A | 120 | 133.0 | 147.0 | 1.0 | 5.0 | 193 | 2.0 |
| SMAJ130(C)A | 130 | 144.0 | 159.0 | 1.0 | 5.0 | 209 | 1.9 |
| SMAJ150(C)A | 150 | 167.0 | 185.0 | 1.0 | 5.0 | 243 | 1.6 |
| SMAJ160(C)A | 160 | 178.0 | 197.0 | 1.0 | 5.0 | 259 | 1.5 |
| SMAJ170(C)A | 170 | 189.0 | 209.0 | 1.0 | 5.0 | 275 | 1.4 |

500W Transient Voltage Suppressors / DO-15



| | | | | | | | |
|------------|-----|------|------|-----|----------|------|------|
| SA5.0(C)A* | 5.0 | 6.40 | 7.00 | 10 | 600/1200 | 9.2 | 54.3 |
| SA6.0(C)A* | 6.0 | 6.67 | 7.37 | 10 | 600/1200 | 10.3 | 48.5 |
| SA6.5(C)A* | 6.5 | 7.22 | 7.98 | 10 | 400/800 | 11.2 | 44.7 |
| SA7.0(C)A | 7.0 | 7.78 | 8.60 | 10 | 150/300 | 12.0 | 41.7 |
| SA7.5(C)A | 7.5 | 8.33 | 9.21 | 1.0 | 50/100 | 12.9 | 38.8 |
| SA8.0(C)A | 8.0 | 8.89 | 9.83 | 1.0 | 25/50 | 13.6 | 36.7 |
| SA8.5(C)A | 8.5 | 9.44 | 10.4 | 1.0 | 10/20 | 14.4 | 34.7 |
| SA9.0(C)A | 9.0 | 10.0 | 11.1 | 1.0 | 5.0/10 | 15.4 | 32.5 |
| SA10(C)A* | 10 | 11.1 | 12.3 | 1.0 | 3.0/6.0 | 17.0 | 29.4 |
| SA11(C)A | 11 | 12.2 | 13.5 | 1.0 | 3.0 | 18.2 | 27.4 |
| SA12(C)A* | 12 | 13.3 | 14.7 | 1.0 | 3.0 | 19.9 | 25.1 |
| SA13(C)A | 13 | 14.4 | 15.9 | 1.0 | 3.0 | 21.5 | 23.2 |
| SA14(C)A | 14 | 15.6 | 17.2 | 1.0 | 3.0 | 23.2 | 21.5 |
| SA15(C)A* | 15 | 16.7 | 18.5 | 1.0 | 3.0 | 24.4 | 20.6 |
| SA16(C)A | 16 | 17.8 | 19.7 | 1.0 | 3.0 | 26.0 | 19.2 |
| SA17(C)A | 17 | 18.9 | 20.9 | 1.0 | 3.0 | 27.6 | 18.1 |
| SA18(C)A* | 18 | 20.0 | 22.1 | 1.0 | 3.0 | 29.2 | 17.2 |
| SA20(C)A* | 20 | 22.2 | 24.5 | 1.0 | 3.0 | 32.4 | 15.4 |
| SA22(C)A | 22 | 24.4 | 26.9 | 1.0 | 3.0 | 35.5 | 14.1 |
| SA24(C)A | 24 | 26.7 | 29.5 | 1.0 | 3.0 | 38.9 | 12.8 |
| SA26(C)A | 26 | 28.9 | 31.9 | 1.0 | 3.0 | 42.1 | 11.9 |
| SA28(C)A | 28 | 31.1 | 34.4 | 1.0 | 3.0 | 45.4 | 11.0 |
| SA30(C)A* | 30 | 33.3 | 36.8 | 1.0 | 3.0 | 48.4 | 10.3 |
| SA33(C)A | 33 | 36.7 | 40.6 | 1.0 | 3.0 | 53.3 | 9.4 |
| SA36(C)A | 36 | 40.0 | 44.2 | 1.0 | 3.0 | 58.1 | 8.6 |
| SA40(C)A | 40 | 44.4 | 49.1 | 1.0 | 3.0 | 64.5 | 7.8 |

1. 'C' suffix denotes bi-directional device.
2. V_{BR} measured with I_T current pulse = 300μs.

(*) Preferred Part.

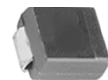
| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|--------------------------|------------------|---|------|----------------|-----------------------------------|----------------------------------|---|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |

500W Transient Voltage Suppressors / DO-15 (Continued)



| | | | | | | | |
|-----------|-----|-------|-------|-----|-----|-------|-----|
| SA43(C)A | 43 | 47.8 | 52.8 | 1.0 | 3.0 | 69.4 | 7.2 |
| SA45(C)A | 45 | 50.0 | 55.3 | 1.0 | 3.0 | 72.7 | 6.9 |
| SA48(C)A | 48 | 53.3 | 58.9 | 1.0 | 3.0 | 77.4 | 6.5 |
| SA51(C)A* | 51 | 56.7 | 62.7 | 1.0 | 3.0 | 82.4 | 6.1 |
| SA54(C)A | 54 | 60.0 | 66.3 | 1.0 | 3.0 | 87.1 | 5.7 |
| SA58(C)A | 58 | 64.4 | 71.2 | 1.0 | 3.0 | 93.6 | 5.3 |
| SA60(C)A | 60 | 66.7 | 73.7 | 1.0 | 3.0 | 96.8 | 5.2 |
| SA64(C)A | 64 | 71.1 | 78.6 | 1.0 | 3.0 | 103.0 | 4.9 |
| SA70(C)A | 70 | 77.8 | 86.0 | 1.0 | 3.0 | 113.0 | 4.4 |
| SA75(C)A | 75 | 83.3 | 92.1 | 1.0 | 3.0 | 121.0 | 4.1 |
| SA78(C)A | 78 | 86.7 | 95.8 | 1.0 | 3.0 | 126.0 | 4.0 |
| SA85(C)A | 85 | 94.4 | 104.0 | 1.0 | 3.0 | 137.0 | 3.6 |
| SA90(C)A | 90 | 100.0 | 111.0 | 1.0 | 3.0 | 146.0 | 3.4 |
| SA100(C)A | 100 | 111.0 | 123.0 | 1.0 | 3.0 | 162.0 | 3.1 |
| SA110(C)A | 110 | 122.0 | 135.0 | 1.0 | 3.0 | 177.0 | 2.8 |
| SA120(C)A | 120 | 133.0 | 147.0 | 1.0 | 3.0 | 193.0 | 2.6 |
| SA130(C)A | 130 | 144.0 | 159.0 | 1.0 | 3.0 | 209.0 | 2.4 |
| SA150(C)A | 150 | 167.0 | 185.0 | 1.0 | 3.0 | 243.0 | 2.1 |
| SA160(C)A | 160 | 178.0 | 197.0 | 1.0 | 3.0 | 259.0 | 1.9 |
| SA170(C)A | 170 | 189.0 | 209.0 | 1.0 | 3.0 | 275.0 | 1.8 |

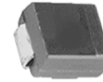
600W Transient Voltage Suppressors / SMB



| | | | | | | | |
|--------------|------|-------|-------|-----|----------|------|------|
| SMBJ5.0(C)A* | 5.0 | 6.40 | 7.23 | 10 | 800/1600 | 9.2 | 65.2 |
| SMBJ6.0(C)A* | 6.0 | 6.67 | 7.67 | 10 | 800/1600 | 10.3 | 58.3 |
| SMBJ6.5(C)A* | 6.5 | 7.22 | 8.30 | 10 | 500/1000 | 11.2 | 53.6 |
| SMBJ7.0(C)A | 7.0 | 7.78 | 8.95 | 10 | 200/400 | 12.0 | 50.0 |
| SMBJ7.5(C)A* | 7.5 | 8.33 | 9.58 | 1.0 | 100/200 | 12.9 | 46.5 |
| SMBJ8.0(C)A | 8.0 | 8.89 | 10.23 | 1.0 | 50/100 | 13.6 | 44.1 |
| SMBJ8.5(C)A | 8.5 | 9.44 | 10.82 | 1.0 | 10/20 | 14.4 | 41.7 |
| SMBJ9.0(C)A | 9.0 | 10.00 | 11.50 | 1.0 | 5.0/10 | 15.4 | 39.0 |
| SMBJ10(C)A* | 10.0 | 11.10 | 12.80 | 1.0 | 5.0/10 | 17.0 | 35.3 |
| SMBJ11(C)A | 11.0 | 12.20 | 14.40 | 1.0 | 5.0 | 18.2 | 33.0 |
| SMBJ12(C)A* | 12.0 | 13.30 | 15.30 | 1.0 | 5.0 | 19.9 | 30.2 |
| SMBJ13(C)A* | 13.0 | 14.40 | 16.50 | 1.0 | 5.0 | 21.5 | 27.9 |
| SMBJ14(C)A | 14.0 | 15.60 | 17.90 | 1.0 | 5.0 | 23.2 | 25.8 |
| SMBJ15(C)A* | 15.0 | 16.70 | 19.20 | 1.0 | 5.0 | 24.4 | 24.0 |
| SMBJ16(C)A | 16.0 | 17.80 | 20.50 | 1.0 | 5.0 | 26.0 | 23.1 |
| SMBJ17(C)A* | 17.0 | 18.90 | 21.70 | 1.0 | 5.0 | 27.6 | 21.7 |
| SMBJ18(C)A* | 18.0 | 20.00 | 23.30 | 1.0 | 5.0 | 29.2 | 20.5 |
| SMBJ20(C)A* | 20.0 | 22.20 | 25.50 | 1.0 | 5.0 | 32.4 | 18.5 |

1. 'C' suffix denotes bi-directional device.
 2. V_{BR} measured with I_T current pulse = 300μs.
- (*) Preferred Part.

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|--------------------------|------------------|---|------|----------------|-----------------------------------|----------------------------------|---|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |



600W Transient Voltage Suppressors / SMB (Continued)

| | | | | | | | |
|--------------|-------|--------|--------|-----|-----|-------|------|
| SMBJ22(C)A* | 22.0 | 24.40 | 28.00 | 1.0 | 5.0 | 35.5 | 16.9 |
| SMBJ24(C)A* | 24.0 | 26.70 | 30.70 | 1.0 | 5.0 | 38.9 | 15.4 |
| SMBJ26(C)A* | 26.0 | 28.90 | 33.20 | 1.0 | 5.0 | 42.1 | 14.2 |
| SMBJ28(C)A* | 28.0 | 31.10 | 35.80 | 1.0 | 5.0 | 45.4 | 13.2 |
| SMBJ30(C)A* | 30.0 | 33.30 | 38.30 | 1.0 | 5.0 | 48.4 | 12.4 |
| SMBJ33(C)A* | 33.0 | 36.70 | 42.20 | 1.0 | 5.0 | 53.3 | 11.3 |
| SMBJ36(C)A* | 36.0 | 40.00 | 46.00 | 1.0 | 5.0 | 58.1 | 10.3 |
| SMBJ40(C)A* | 40.0 | 44.40 | 51.10 | 1.0 | 5.0 | 64.5 | 9.3 |
| SMBJ43(C)A* | 43.0 | 47.80 | 54.90 | 1.0 | 5.0 | 69.4 | 8.6 |
| SMBJ45(C)A* | 45.0 | 50.00 | 57.50 | 1.0 | 5.0 | 72.7 | 8.3 |
| SMBJ48(C)A | 48.0 | 53.30 | 61.30 | 1.0 | 5.0 | 77.4 | 7.7 |
| SMBJ51(C)A | 51.0 | 56.70 | 65.20 | 1.0 | 5.0 | 82.4 | 7.3 |
| SMBJ54(C)A* | 54.0 | 60.00 | 69.00 | 1.0 | 5.0 | 87.1 | 6.9 |
| SMBJ58(C)A | 58.0 | 64.40 | 74.60 | 1.0 | 5.0 | 93.6 | 6.4 |
| SMBJ60(C)A | 60.0 | 66.70 | 76.70 | 1.0 | 5.0 | 96.8 | 6.2 |
| SMBJ64(C)A | 64.0 | 71.10 | 81.80 | 1.0 | 5.0 | 103.0 | 5.8 |
| SMBJ70(C)A* | 70.0 | 77.80 | 89.50 | 1.0 | 5.0 | 113.0 | 5.3 |
| SMBJ75(C)A | 75.0 | 83.30 | 95.80 | 1.0 | 5.0 | 121.0 | 4.9 |
| SMBJ78(C)A | 78.0 | 86.70 | 99.70 | 1.0 | 5.0 | 126.0 | 4.7 |
| SMBJ85(C)A* | 85.0 | 94.40 | 108.20 | 1.0 | 5.0 | 137.0 | 4.4 |
| SMBJ90(C)A | 90.0 | 100.00 | 115.50 | 1.0 | 5.0 | 146.0 | 4.1 |
| SMBJ100(C)A* | 100.0 | 111.00 | 128.00 | 1.0 | 5.0 | 162.0 | 3.7 |
| SMBJ110(C)A* | 110.0 | 122.00 | 140.00 | 1.0 | 5.0 | 177.0 | 3.4 |
| SMBJ120(C)A | 120.0 | 133.00 | 153.00 | 1.0 | 5.0 | 193.0 | 3.1 |
| SMBJ130(C)A | 130.0 | 144.00 | 165.50 | 1.0 | 5.0 | 209.0 | 2.9 |
| SMBJ150(C)A | 150.0 | 167.00 | 192.50 | 1.0 | 5.0 | 243.0 | 2.5 |
| SMBJ160(C)A | 160.0 | 178.00 | 205.00 | 1.0 | 5.0 | 259.0 | 2.3 |
| SMBJ170(C)A | 170.0 | 189.00 | 217.50 | 1.0 | 5.0 | 275.0 | 2.2 |



600W Transient Voltage Suppressors / DO-15

| | | | | | | | |
|--------------|-------|-------|-------|-----|-----------|------|-------|
| P6KE6.8(C)A* | 5.80 | 6.45 | 7.14 | 10 | 1000/2000 | 10.5 | 57.00 |
| P6KE7.5(C)A* | 6.40 | 7.13 | 7.88 | 10 | 500/1000 | 11.3 | 53.00 |
| P6KE8.2(C)A* | 7.02 | 7.79 | 8.61 | 10 | 200/400 | 12.1 | 50.00 |
| P6KE9.1(C)A* | 7.78 | 8.65 | 9.55 | 1.0 | 50/100 | 13.4 | 45.00 |
| P6KE10(C)A* | 8.55 | 9.50 | 10.50 | 1.0 | 10/20 | 14.5 | 41.00 |
| P6KE11(C)A | 9.40 | 10.50 | 11.60 | 1.0 | 5.0 | 15.6 | 38.00 |
| P6KE12(C)A* | 10.20 | 11.40 | 12.60 | 1.0 | 5.0 | 16.7 | 36.00 |
| P6KE13(C)A | 11.10 | 12.40 | 13.70 | 1.0 | 5.0 | 18.2 | 33.00 |
| P6KE15(C)A* | 12.80 | 14.30 | 15.80 | 1.0 | 5.0 | 21.2 | 28.00 |
| P6KE16(C)A* | 13.60 | 15.20 | 16.80 | 1.0 | 5.0 | 22.5 | 27.00 |

1. 'C' suffix denotes bi-directional device.
 2. V_{BR} measured with I_T current pulse = 300μs.
- (*) Preferred Part.

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|---|------------------|---|-------|----------------|-----------------------------------|----------------------------------|-------|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |
| 600W Transient Voltage Suppressors / DO-15 (Continued) | | | | | | | |
| P6KE18(C)A* | 15.30 | 17.10 | 18.90 | 1.0 | 5.0 | 25.2 | 24.00 |
| P6KE20(C)A* | 17.10 | 19.00 | 21.00 | 1.0 | 5.0 | 27.7 | 22.00 |
| P6KE22(C)A | 18.80 | 20.90 | 23.10 | 1.0 | 5.0 | 30.6 | 20.00 |
| P6KE24(C)A* | 20.50 | 22.80 | 25.20 | 1.0 | 5.0 | 33.2 | 18.00 |
| P6KE27(C)A* | 23.10 | 25.70 | 28.40 | 1.0 | 5.0 | 37.5 | 16.00 |
| P6KE30(C)A* | 25.60 | 28.50 | 31.50 | 1.0 | 5.0 | 41.4 | 14.40 |
| P6KE33(C)A* | 28.20 | 31.40 | 34.70 | 1.0 | 5.0 | 45.7 | 13.20 |
| P6KE36(C)A* | 30.80 | 34.20 | 37.80 | 1.0 | 5.0 | 49.9 | 12.00 |
| P6KE39(C)A* | 33.30 | 37.10 | 41.00 | 1.0 | 5.0 | 53.9 | 11.20 |
| P6KE43(C)A | 36.80 | 40.90 | 45.20 | 1.0 | 5.0 | 59.3 | 10.10 |
| P6KE47(C)A | 40.20 | 44.70 | 49.40 | 1.0 | 5.0 | 64.8 | 9.30 |
| P6KE51(C)A* | 43.60 | 48.50 | 53.60 | 1.0 | 5.0 | 70.1 | 8.60 |
| P6KE56(C)A | 47.80 | 53.20 | 58.80 | 1.0 | 5.0 | 77.0 | 7.80 |
| P6KE62(C)A* | 53.00 | 58.90 | 65.10 | 1.0 | 5.0 | 85.0 | 7.10 |
| P6KE68(C)A* | 58.10 | 64.60 | 71.40 | 1.0 | 5.0 | 92.0 | 6.50 |
| P6KE75(C)A* | 64.10 | 71.30 | 78.80 | 1.0 | 5.0 | 103.0 | 5.80 |
| P6KE82(C)A | 70.10 | 77.90 | 86.10 | 1.0 | 5.0 | 113.0 | 5.30 |
| P6KE91(C)A | 77.80 | 86.50 | 95.50 | 1.0 | 5.0 | 125.0 | 4.80 |
| P6KE100(C)A* | 85.50 | 95.00 | 105.0 | 1.0 | 5.0 | 137.0 | 4.40 |
| P6KE110(C)A | 94.00 | 105.0 | 116.0 | 1.0 | 5.0 | 152.0 | 4.00 |
| P6KE120(C)A | 102.00 | 114.0 | 126.0 | 1.0 | 5.0 | 165.0 | 3.60 |
| P6KE130(C)A* | 111.00 | 124.0 | 137.0 | 1.0 | 5.0 | 179.0 | 3.30 |
| P6KE150(C)A* | 128.00 | 143.0 | 158.0 | 1.0 | 5.0 | 207.0 | 2.90 |
| P6KE160(C)A | 136.00 | 152.0 | 168.0 | 1.0 | 5.0 | 219.0 | 2.70 |
| P6KE170(C)A | 145.00 | 162.0 | 179.0 | 1.0 | 5.0 | 234.0 | 2.60 |
| P6KE180(C)A* | 154.00 | 171.0 | 189.0 | 1.0 | 5.0 | 246.0 | 2.40 |
| P6KE200(C)A* | 171.00 | 190.0 | 210.0 | 1.0 | 5.0 | 274.0 | 2.20 |
| P6KE220(C)A | 185.00 | 209.0 | 231.0 | 1.0 | 5.0 | 328.0 | 1.83 |
| P6KE250(C)A | 214.00 | 237.0 | 263.0 | 1.0 | 5.0 | 344.0 | 1.75 |
| P6KE300(C)A | 256.0 | 285.0 | 315.0 | 1.0 | 5.0 | 414.0 | 1.45 |
| P6KE350(C)A | 300.0 | 332.0 | 368.0 | 1.0 | 5.0 | 482.0 | 1.25 |
| P6KE400(C)A* | 342.0 | 380.0 | 420.0 | 1.0 | 5.0 | 548.0 | 1.10 |



1. 'C' suffix denotes bi-directional device.
2. Type number marking may contain a 'V' or dash in place of a decimal point.
(*) Preferred Part.

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|--------------------------|------------------|---|------|----------------|-----------------------------------|----------------------------------|---|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |

1500W Transient Voltage Suppressors / SMC



| | | | | | | | |
|--------------|------|-------|-------|-----|-----------|-------|-------|
| SMCJ5.0(C)A* | 5.0 | 6.40 | 7.25 | 10 | 1000/2000 | 9.2 | 163.0 |
| SMCJ6.0(C)A* | 6.0 | 6.67 | 7.67 | 10 | 1000/2000 | 10.3 | 145.6 |
| SMCJ6.5(C)A | 6.5 | 7.22 | 8.30 | 10 | 500/1000 | 11.2 | 133.9 |
| SMCJ7.0(C)A | 7.0 | 7.78 | 8.95 | 10 | 200/400 | 12.0 | 125.0 |
| SMCJ7.5(C)A | 7.5 | 8.33 | 9.58 | 1.0 | 100/200 | 12.9 | 116.3 |
| SMCJ8.0(C)A | 8.0 | 8.89 | 10.23 | 1.0 | 50/100 | 13.6 | 110.3 |
| SMCJ8.5(C)A | 8.5 | 9.44 | 10.82 | 1.0 | 20/40 | 14.4 | 104.2 |
| SMCJ9.0(C)A | 9.0 | 10.00 | 11.50 | 1.0 | 10/20 | 15.4 | 97.4 |
| SMCJ10(C)A | 10.0 | 11.10 | 12.80 | 1.0 | 5/10 | 17.0 | 88.2 |
| SMCJ11(C)A | 11.0 | 12.20 | 14.40 | 1.0 | 5.0 | 18.2 | 82.4 |
| SMCJ12(C)A* | 12.0 | 13.30 | 15.30 | 1.0 | 5.0 | 19.9 | 75.3 |
| SMCJ13(C)A | 13.0 | 14.40 | 16.50 | 1.0 | 5.0 | 21.5 | 69.7 |
| SMCJ14(C)A | 14.0 | 15.60 | 17.90 | 1.0 | 5.0 | 23.2 | 64.7 |
| SMCJ15(C)A* | 15.0 | 16.70 | 19.20 | 1.0 | 5.0 | 24.4 | 61.5 |
| SMCJ16(C)A | 16.0 | 17.80 | 20.50 | 1.0 | 5.0 | 26.0 | 57.7 |
| SMCJ17(C)A | 17.0 | 18.90 | 21.70 | 1.0 | 5.0 | 27.6 | 53.3 |
| SMCJ18(C)A | 18.0 | 20.00 | 23.30 | 1.0 | 5.0 | 29.2 | 51.4 |
| SMCJ20(C)A | 20.0 | 22.20 | 25.50 | 1.0 | 5.0 | 32.4 | 46.3 |
| SMCJ22(C)A | 22.0 | 24.40 | 28.00 | 1.0 | 5.0 | 35.5 | 42.2 |
| SMCJ24(C)A | 24.0 | 26.70 | 30.70 | 1.0 | 5.0 | 38.9 | 38.6 |
| SMCJ26(C)A | 26.0 | 28.90 | 33.20 | 1.0 | 5.0 | 42.1 | 35.6 |
| SMCJ28(C)A* | 28.0 | 31.10 | 35.80 | 1.0 | 5.0 | 45.4 | 33.0 |
| SMCJ30(C)A* | 30.0 | 33.30 | 38.30 | 1.0 | 5.0 | 48.4 | 31.0 |
| SMCJ33(C)A | 33.0 | 36.70 | 42.20 | 1.0 | 5.0 | 53.3 | 28.1 |
| SMCJ36(C)A* | 36.0 | 40.00 | 46.00 | 1.0 | 5.0 | 58.1 | 25.8 |
| SMCJ40(C)A | 40.0 | 44.40 | 51.10 | 1.0 | 5.0 | 64.5 | 23.2 |
| SMCJ43(C)A | 43.0 | 47.80 | 54.90 | 1.0 | 5.0 | 69.4 | 21.6 |
| SMCJ45(C)A | 45.0 | 50.00 | 57.50 | 1.0 | 5.0 | 72.7 | 20.6 |
| SMCJ48(C)A | 48.0 | 53.30 | 61.30 | 1.0 | 5.0 | 77.4 | 19.4 |
| SMCJ51(C)A | 51.0 | 56.70 | 65.20 | 1.0 | 5.0 | 82.4 | 18.2 |
| SMCJ54(C)A | 54.0 | 60.00 | 69.00 | 1.0 | 5.0 | 87.1 | 17.2 |
| SMCJ58(C)A | 58.0 | 64.40 | 74.60 | 1.0 | 5.0 | 93.6 | 16.0 |
| SMCJ60(C)A | 60.0 | 66.70 | 76.70 | 1.0 | 5.0 | 96.8 | 15.5 |
| SMCJ64(C)A | 64.0 | 71.10 | 81.80 | 1.0 | 5.0 | 103.0 | 14.6 |
| SMCJ70(C)A | 70.0 | 77.80 | 89.50 | 1.0 | 5.0 | 113.0 | 13.3 |
| SMCJ75(C)A | 75.0 | 83.30 | 95.80 | 1.0 | 5.0 | 121.0 | 12.4 |
| SMCJ78(C)A | 78.0 | 86.70 | 99.70 | 1.0 | 5.0 | 126.0 | 11.4 |
| SMCJ85(C)A | 85.0 | 94.40 | 108.2 | 1.0 | 5.0 | 137.0 | 10.4 |
| SMCJ90(C)A | 90.0 | 100.0 | 115.5 | 1.0 | 5.0 | 146.0 | 10.3 |

1. 'C' suffix denotes bi-directional device.
2. V_{BR} measured with I_T current pulse = 300μs.
(*) Preferred Part.

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|--------------------------|------------------|---|------|----------------|-----------------------------------|----------------------------------|---|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |

1500W Transient Voltage Suppressors / SMC (Continued)



| | | | | | | | |
|--------------|-------|-------|-------|-----|-----|-------|-----|
| SMCJ100(C)A | 100.0 | 111.0 | 128.0 | 1.0 | 5.0 | 162.0 | 9.3 |
| SMCJ110(C)A | 110.0 | 122.0 | 140.5 | 1.0 | 5.0 | 177.0 | 8.4 |
| SMCJ120(C)A | 120.0 | 133.0 | 153.0 | 1.0 | 5.0 | 193.0 | 7.9 |
| SMCJ130(C)A | 130.0 | 144.0 | 165.5 | 1.0 | 5.0 | 209.0 | 7.2 |
| SMCJ150(C)A | 150.0 | 167.0 | 192.5 | 1.0 | 5.0 | 243.0 | 6.2 |
| SMCJ160(C)A | 160.0 | 178.0 | 205.0 | 1.0 | 5.0 | 259.0 | 5.8 |
| SMCJ170(C)A* | 170.0 | 189.0 | 217.5 | 1.0 | 5.0 | 275.0 | 5.5 |

1500W Transient Voltage Suppressors / DO-201AD




| | | | | | | | |
|---------------|-------|-------|-------|-----|-----------|-------|-------|
| 1.5KE6.8(C)A* | 5.80 | 6.45 | 7.14 | 10 | 1000/2000 | 10.5 | 143.0 |
| 1.5KE7.5(C)A* | 6.40 | 7.13 | 7.88 | 10 | 500/1000 | 11.3 | 132.0 |
| 1.5KE8.2(C)A* | 7.02 | 7.79 | 8.61 | 10 | 200/400 | 12.1 | 124.0 |
| 1.5KE9.1(C)A | 7.78 | 8.65 | 9.55 | 1.0 | 50/100 | 13.4 | 112.0 |
| 1.5KE10(C)A* | 8.55 | 9.50 | 10.50 | 1.0 | 10/20 | 14.5 | 103.0 |
| 1.5KE11(C)A | 9.40 | 10.50 | 11.60 | 1.0 | 5.0 | 15.6 | 96.0 |
| 1.5KE12(C)A* | 10.20 | 11.40 | 12.60 | 1.0 | 5.0 | 16.7 | 90.0 |
| 1.5KE13(C)A | 11.10 | 12.40 | 13.70 | 1.0 | 5.0 | 18.2 | 82.0 |
| 1.5KE15(C)A* | 12.80 | 14.30 | 15.80 | 1.0 | 5.0 | 21.2 | 71.0 |
| 1.5KE16(C)A | 13.60 | 15.20 | 16.80 | 1.0 | 5.0 | 22.5 | 67.0 |
| 1.5KE18(C)A* | 15.30 | 17.10 | 18.90 | 1.0 | 5.0 | 25.2 | 59.5 |
| 1.5KE20(C)A* | 17.10 | 19.00 | 21.00 | 1.0 | 5.0 | 27.7 | 54.0 |
| 1.5KE22(C)A* | 18.80 | 20.90 | 23.10 | 1.0 | 5.0 | 30.6 | 49.0 |
| 1.5KE24(C)A* | 20.50 | 22.80 | 25.20 | 1.0 | 5.0 | 33.2 | 45.0 |
| 1.5KE27(C)A* | 23.10 | 25.70 | 28.40 | 1.0 | 5.0 | 37.5 | 40.0 |
| 1.5KE30(C)A* | 25.60 | 28.50 | 31.50 | 1.0 | 5.0 | 41.4 | 36.0 |
| 1.5KE33(C)A* | 28.20 | 31.40 | 34.70 | 1.0 | 5.0 | 45.7 | 33.0 |
| 1.5KE36(C)A* | 30.80 | 34.20 | 37.80 | 1.0 | 5.0 | 49.9 | 30.0 |
| 1.5KE39(C)A* | 33.30 | 37.10 | 41.00 | 1.0 | 5.0 | 53.9 | 28.0 |
| 1.5KE43(C)A | 36.80 | 40.90 | 45.20 | 1.0 | 5.0 | 59.3 | 25.3 |
| 1.5KE47(C)A | 40.20 | 44.70 | 49.40 | 1.0 | 5.0 | 64.8 | 23.2 |
| 1.5KE51(C)A* | 43.60 | 48.50 | 53.60 | 1.0 | 5.0 | 70.1 | 21.4 |
| 1.5KE56(C)A* | 47.80 | 53.20 | 58.80 | 1.0 | 5.0 | 77.0 | 19.5 |
| 1.5KE62(C)A* | 53.00 | 58.90 | 65.10 | 1.0 | 5.0 | 85.0 | 17.7 |
| 1.5KE68(C)A* | 58.10 | 64.60 | 71.40 | 1.0 | 5.0 | 92.0 | 16.3 |
| 1.5KE75(C)A* | 64.10 | 71.30 | 78.80 | 1.0 | 5.0 | 103.0 | 14.6 |
| 1.5KE82(C)A | 70.10 | 77.90 | 86.10 | 1.0 | 5.0 | 113.0 | 13.3 |
| 1.5KE91(C)A | 77.80 | 86.50 | 95.50 | 1.0 | 5.0 | 125.0 | 12.0 |
| 1.5KE100(C)A* | 85.50 | 95.00 | 105.0 | 1.0 | 5.0 | 137.0 | 11.0 |
| 1.5KE110(C)A | 94.00 | 105.0 | 116.0 | 1.0 | 5.0 | 152.0 | 9.9 |

1. 'C' suffix denotes bi-directional device.

2. Type number marking may contain a 'V' or dash in place of a decimal point.

(*) Preferred Part.

| Type Number ¹ | V _{RWM} | V _{BR} @ I _T (Note 2) | | | I _R @ V _{RWM} | V _C @ I _{PP} | |
|---|------------------|---|-------|----------------|-----------------------------------|----------------------------------|-----|
| | | Min. | Max. | I _T | UNI- / BI- | V | A |
| | V | V | V | mA | μA | | |
| 1500W Transient Voltage Suppressors / DO-201AD (Continued)  | | | | | | | |
| 1.5KE120(C)A | 102.0 | 114.0 | 126.0 | 1.0 | 5.0 | 165.0 | 9.1 |
| 1.5KE130(C)A* | 111.0 | 124.0 | 137.0 | 1.0 | 5.0 | 179.0 | 8.4 |
| 1.5KE150(C)A* | 128.0 | 143.0 | 158.0 | 1.0 | 5.0 | 207.0 | 7.2 |
| 1.5KE160(C)A | 136.0 | 152.0 | 168.0 | 1.0 | 5.0 | 219.0 | 6.8 |
| 1.5KE170(C)A | 145.0 | 162.0 | 179.0 | 1.0 | 5.0 | 234.0 | 6.4 |
| 1.5KE180(C)A | 154.0 | 171.0 | 189.0 | 1.0 | 5.0 | 246.0 | 6.1 |
| 1.5KE200(C)A* | 171.0 | 190.0 | 210.0 | 1.0 | 5.0 | 274.0 | 5.5 |
| 1.5KE220(C)A* | 185.0 | 209.0 | 231.0 | 1.0 | 5.0 | 328.0 | 4.6 |
| 1.5KE250(C)A | 214.0 | 237.0 | 263.0 | 1.0 | 5.0 | 344.0 | 5.0 |
| 1.5KE300(C)A* | 256.0 | 285.0 | 315.0 | 1.0 | 5.0 | 414.0 | 5.0 |
| 1.5KE350(C)A | 300.0 | 332.0 | 368.0 | 1.0 | 5.0 | 482.0 | 4.0 |
| 1.5KE400(C)A | 342.0 | 380.0 | 420.0 | 1.0 | 5.0 | 548.0 | 4.0 |
| 1. 'C' suffix denotes bi-directional device. 2. Type number marking may contain a 'V' or dash in place of a decimal point. (*) Preferred Part. | | | | | | | |

NPN, PNP Transistors, MOSFET

| Type Number | Collector to Emitter Voltage | DC Current Gain | | Saturation Voltage, Collector to Emitter | | Gain Bandwidth Product | |
|-------------|------------------------------|--------------------------|--------|--|---------|------------------------|--------|
| | V_{CEO} | $h_{FE} @ V_{CEO} / I_C$ | | $V_{CE SAT} @ I_C / I_B$ | | $f_T @ V_{CE} / I_C$ | |
| | V | Min-Max | V / mA | Max. V | mA / mA | MHz | V / mA |

NPN Transistors / SOT-323 NEW



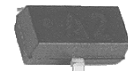
| | | | | | | | |
|-----------|----|---------|---------|------|--------|--------|-------|
| MMST2222A | 40 | 100-300 | 10/150 | 1.0 | 500/50 | 300min | 20/20 |
| MMST3904 | 40 | 100-300 | 1.0/10 | 0.30 | 50/5.0 | 300min | 20/20 |
| MMST4401 | 40 | 100-300 | 1.0/150 | 0.75 | 500/50 | 250min | 10/20 |

Dual NPN Transistors / SOT-363 NEW



| | | | | | | | |
|-----------|----|---------|---------|------|--------|--------|-------|
| MMDT2222A | 40 | 100-300 | 10/150 | 1.0 | 500/50 | 300min | 20/20 |
| MMDT3904 | 40 | 100-300 | 1.0/10 | 0.30 | 50/5.0 | 300min | 20/20 |
| MMDT4401 | 40 | 100-300 | 1.0/150 | 0.75 | 500/50 | 250min | 10/20 |

NPN Transistors / SOT-23

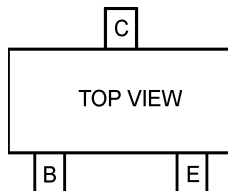


| | | | | | | | |
|-----------------------------|-----|---------|---------|------|--------|------------|-------|
| MMBT2222A | 40 | 100-300 | 10/150 | 1.0 | 500/50 | 300min | 20/20 |
| MMBT3904 | 40 | 100-300 | 1.0/10 | 0.30 | 50/5 | 300min | 20/20 |
| MMBT4401 | 40 | 100-300 | 1.0/150 | 0.75 | 500/50 | 250min | 10/20 |
| MMBTA42 <small>NEW</small> | 300 | 40min | 10/30 | 0.5 | 20/2.0 | 50min | 20/10 |
| MBT5551 <small>NEW</small> | 160 | 80-250 | 5.0/10 | 0.20 | 50/5.0 | 100-300min | 10/10 |
| MMBT4124 <small>NEW</small> | 25 | 120-360 | 1.0/2.0 | 0.30 | 50/5.0 | 250min | 20/20 |
| MMBTA05 | 60 | 100min | 1.0/100 | 0.25 | 100/10 | 100min | 1/10 |
| MMBTA06 | 80 | 100min | 1.0/100 | 0.25 | 100/10 | 100min | 1/10 |

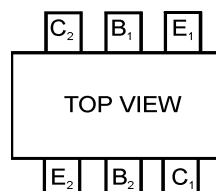
PNP Transistors / SOT-323 NEW



| | | | | | | | |
|-----------|-----|---------|-----------|-------|----------|--------|---------|
| MMST2907A | -60 | 100-300 | -10/-150 | -1.6 | -500/-50 | 200min | -20/-50 |
| MMST3906 | -40 | 100-300 | -1.0/-10 | -0.40 | -50/-5.0 | 250min | -20/-10 |
| MMST4403 | -40 | 100-300 | -2.0/-150 | -0.75 | -500/-50 | 200min | -10/-20 |



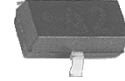
NPN/PNP TRANSISTOR
PIN CONFIGURATION
SOT-23 / SOT-323



NPN/PNP TRANSISTOR
PIN CONFIGURATION
SOT-363

| Type Number | Collector to Emitter Voltage | DC Current Gain | | Saturation Voltage, Collector to Emitter | | Gain Bandwidth Product | |
|-------------|------------------------------|--------------------------|--------|--|---------|------------------------|--------|
| | V_{CEO} | $h_{FE} @ V_{CEO} / I_C$ | | $V_{CE SAT} @ I_C / I_B$ | | $f_T @ V_{CE} / I_C$ | |
| | V | Min-Max | V / mA | Max. V | mA / mA | MHz | V / mA |

PNP Transistors / SOT-23



| | | | | | | | |
|-----------------------------|------|---------|-----------|-------|----------|---------|----------|
| MMBT2907A | -60 | 100-300 | -10/-150 | -1.6 | -500/-50 | 200min | -20/-50 |
| MMBT3906 | -40 | 100-300 | -1.0/-10 | -0.40 | -50/-5.0 | 250min | -20/-10 |
| MMBT4403 | -40 | 100-300 | -2.0/-150 | -0.75 | -500/-50 | 200min | -10/-20 |
| MMBTA55 <small>NEW</small> | -60 | 100min | -1.0/-100 | -0.25 | -100/-10 | 50min | -1.0/100 |
| MMBTA56 <small>NEW</small> | -80 | 100min | -1.0/-100 | -0.25 | -100/-10 | 50min | -1.0/100 |
| MMBTA92 <small>NEW</small> | -300 | 40min | -10/-10 | -0.50 | -20/-2.0 | 50min | -20/-10 |
| MMBT4126 <small>NEW</small> | -25 | 120-480 | -1.0/-2.0 | -0.40 | -50/-5.0 | 250min | -20/-10 |
| MMBT5401 <small>NEW</small> | -150 | 60-240 | -5.0/-10 | -0.50 | -50/-5.0 | 100-300 | -10/-10 |

Dual PNP Transistors / SOT-363 NEW



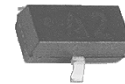
| | | | | | | | |
|-----------|-----|---------|-----------|-------|----------|--------|---------|
| MMDT2907A | -60 | 100-300 | -10/-150 | -1.6 | -500/-50 | 200min | -20/-50 |
| MMDT3906 | -40 | 100-300 | -1.0/-10 | -0.40 | -50/-5.0 | 250min | -20/-10 |
| MMDT4403 | -40 | 100-300 | -2.0/-150 | -0.75 | -500/-50 | 200min | -10/-20 |

Darlington NPN Transistors / SOT-23



| | | | | | | | |
|-----------------------------|----|----------------|---------|-----|---------|--------|------|
| MMBT6427 <small>NEW</small> | 40 | 20,000-200,000 | 5.0/100 | 1.5 | 500/0.5 | — | — |
| MMBTA13 | 30 | 10,000 | 5.0/100 | 1.5 | 100/0.1 | 125min | 5/10 |
| MMBTA14 | 30 | 20,000 | 5.0/100 | 1.5 | 100/0.1 | 125min | 5/10 |

Darlington PNP Transistors / SOT-23 NEW

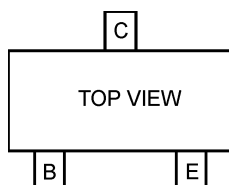


| | | | | | | | |
|---------|-----|-----------|-----------|------|-----------|--------|----------|
| MMBTA63 | -30 | 10,000min | -5.0/-100 | -1.5 | -100/-0.1 | 125min | -5.0/-10 |
| MMBTA64 | -30 | 20,000min | -5.0/-100 | -1.5 | -100/-0.1 | 125min | -5.0/-10 |

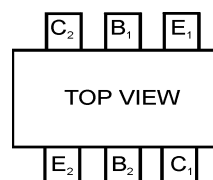
Complementary NPN/PNP Transistors / SOT-363 NEW



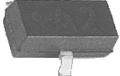

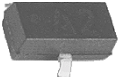

| | | | | | | | |
|-------------|-----|---------|-----------|-------|----------|--------|---------|
| MMDT2227 | | | | | | | |
| NPN Section | 40 | 100-300 | 10/150 | 1.0 | 500/50 | 300min | 20/20 |
| PNP Section | -60 | 100-300 | -10/-150 | -1.6 | -500/-50 | 200min | -20/-50 |
| MMDT3946 | | | | | | | |
| NPN Section | 40 | 100-300 | 1.0/10 | 0.30 | 50/5.0 | 300min | 20/20 |
| PNP Section | -40 | 100-300 | -1.0/-10 | -0.40 | -50/-5.0 | 250min | -20/-10 |
| MMDT4413 | | | | | | | |
| NPN Section | 40 | 100-300 | 1.0/150 | 0.75 | 500/50 | 250min | 10/20 |
| PNP Section | -40 | 100-300 | -2.0/-150 | -0.75 | -500/-50 | 200min | -10/-20 |

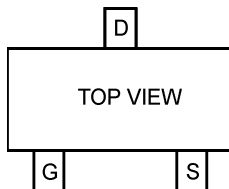


NPN/PNP TRANSISTOR
PIN CONFIGURATION
SOT-23 / SOT-323

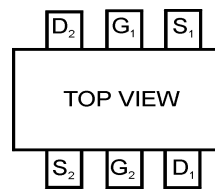


NPN/PNP TRANSISTOR
PIN CONFIGURATION
SOT-363

| Type Number | V_{DSS} | V_{GSS} | $I_{D\ MAX}$ | $r_{DS(on)\ max}$ | Gate Threshold Voltage $V_{GS\ TA}$ | I_{DSS} | C_{ISS} |
|---|-----------|-------------|--------------|-------------------|-------------------------------------|-------------|---|
| N-Channel MOSFET / SOT-23 <i>NEW</i> | | | | | | |  |
| 2N7002 | 60V | $\pm 20\ V$ | 115mA | 7.5Ohm | 2.5Vmax | 1.0 μ A | 50pF |
| MMBF170 | 60V | $\pm 20\ V$ | 500mA | 5.0Ohm | 3.0Vmax | 1.0 μ A | 40pF |
| BS870 | 60V | $\pm 20\ V$ | 250mA | 5.0Ohm | 3.0Vmax | 0.5 μ A | 50pF |
| N-Channel MOSFET / SOT-323 <i>NEW</i> | | | | | | |  |
| 2N7002W | 60V | $\pm 20\ V$ | 115mA | 7.5Ohm | 2.5Vmax | 1.0 μ A | 50pF |
| N-Channel MOSFET / SC-59 <i>NEW</i> | | | | | | |  |
| DMN100 | 30V | $\pm 20\ V$ | $\pm 1.1A$ | 0.17Ohm | 3.0Vmax | 1.0 μ A | 150pF |
| Dual N-Channel MOSFET / SOT-363 <i>NEW</i> | | | | | | |  |
| 2N7002DW | 60V | $\pm 20\ V$ | 115mA | 7.5Ohm | 2.5Vmax | 1.0 μ A | 50pF |



N-CHANNEL MOSFET
PIN CONFIGURATION
SOT-23 / SOT-323 / SC-59

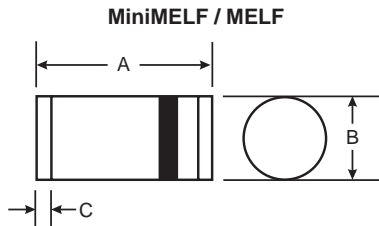


DUAL N-CHANNEL MOSFET
PIN CONFIGURATION
SOT-363

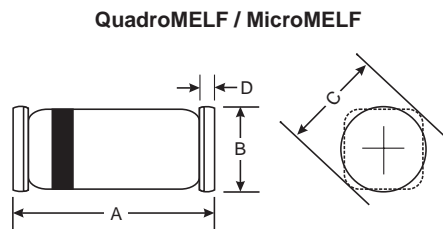
Product Packaging Information

Package Outline Dimensions

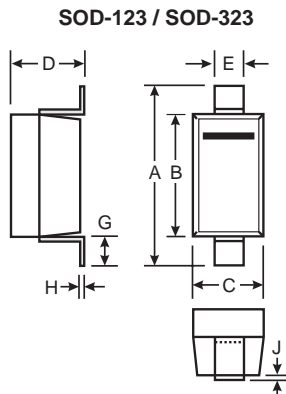
All Dimensions in mm



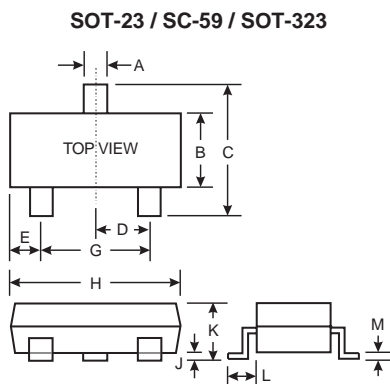
| Dim | MiniMELF | | MELF | |
|-----|----------|------|--------------|------|
| | Min | Max | Min | Max |
| A | 3.30 | 3.70 | 4.80 | 5.20 |
| B | 1.30 | 1.60 | 2.40 | 2.60 |
| C | 0.28 | 0.50 | 0.55 Nominal | |



| Dim | QuadroMELF | | MicroMELF | |
|-----|---------------------------|-----|----------------------------|------|
| | Min | Max | Min | Max |
| A | 3.3 | 3.7 | 1.8 | 2.0 |
| B | 1.4 | 1.6 | 1.20 | 1.25 |
| C | 1.7 \varnothing Typical | | 1.35 \varnothing Typical | |
| D | 0.3 Typical | | — | |

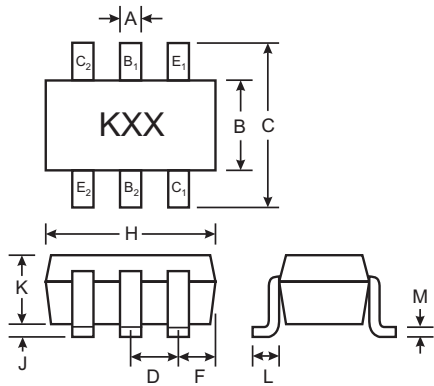


| Dim | SOD-123 | | SOD-323 | |
|-----|--------------|------|---------|------|
| | Min | Max | Min | Max |
| A | 3.55 | 3.85 | 2.30 | 2.70 |
| B | 2.55 | 2.85 | 1.60 | 1.80 |
| C | 1.40 | 1.70 | 1.15 | 1.35 |
| D | — | 1.35 | 0.80 | 1.10 |
| E | 0.55 Typical | | 0.25 | 0.40 |
| G | 0.25 | — | 0.15 | 0.45 |
| H | 0.15 Typical | | 0.10 | 0.25 |
| J | — | 0.10 | — | 0.10 |



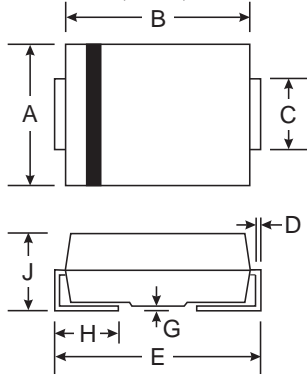
| Dim | SOT-23 | | SC-59 | | SOT-323 | |
|-----|--------|-------|-------|------|--------------|------|
| | Min | Max | Min | Max | Min | Max |
| A | 0.37 | 0.51 | 0.30 | 0.50 | 0.30 | 0.40 |
| B | 1.19 | 1.40 | 1.40 | 1.80 | 1.15 | 1.35 |
| C | 2.10 | 2.50 | 2.50 | 3.00 | 2.00 | 2.20 |
| D | 0.89 | 1.05 | 0.85 | 1.05 | 0.65 Nominal | |
| E | 0.45 | 0.61 | 0.30 | 0.70 | 0.30 | 0.40 |
| G | 1.78 | 2.05 | 1.70 | 2.10 | 1.20 | 1.40 |
| H | 2.65 | 3.05 | 2.70 | 3.10 | 1.80 | 2.20 |
| J | 0.013 | 0.15 | — | 0.10 | 0.0 | 0.10 |
| K | 0.89 | 1.10 | 1.00 | 1.40 | 0.90 | 1.00 |
| L | 0.45 | 0.61 | 0.55 | 0.70 | 0.25 | 0.40 |
| M | 0.076 | 0.178 | 0.10 | 0.35 | 0.10 | 0.25 |

SOT-363



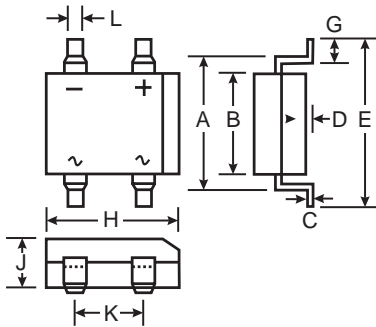
| SOT-363 | | |
|---------|--------------|------|
| Dim | Min | Max |
| A | 0.10 | 0.30 |
| B | 1.15 | 1.35 |
| C | 2.00 | 2.20 |
| D | 0.65 Nominal | |
| F | 0.30 | 0.40 |
| H | 1.80 | 2.20 |
| J | — | 0.10 |
| K | 0.90 | 1.00 |
| L | 0.25 | 0.40 |
| M | 0.10 | 0.25 |

SMA, SMB, SMC



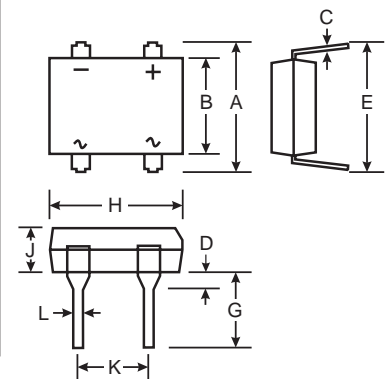
| Dim | SMA | | SMB | | SMC | |
|-----|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max |
| A | 2.29 | 2.92 | 3.30 | 3.94 | 5.59 | 6.22 |
| B | 4.00 | 4.60 | 4.06 | 4.57 | 6.60 | 7.11 |
| C | 1.27 | 1.63 | 1.96 | 2.21 | 2.75 | 3.18 |
| D | 0.15 | 0.31 | 0.15 | 0.31 | 0.15 | 0.31 |
| E | 4.80 | 5.59 | 5.00 | 5.59 | 7.75 | 8.13 |
| G | 0.10 | 0.20 | 0.10 | 0.20 | 0.10 | 0.20 |
| H | 0.76 | 1.52 | 0.76 | 1.52 | 0.76 | 1.52 |
| J | 2.01 | 2.62 | 2.00 | 2.62 | 2.00 | 2.62 |

DF-S / MiniDIP

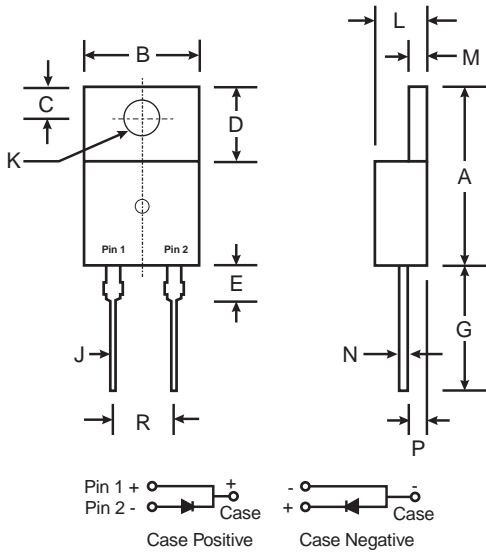


| Dim | DF-S | | MiniDIP | | DF-M | |
|-----|-------|-------|---------|------|------|------|
| | Min | Max | Min | Max | Min | Max |
| A | 7.40 | 7.90 | 5.43 | 5.75 | 7.40 | 7.90 |
| B | 6.20 | 6.50 | 3.6 | 4.0 | 6.20 | 6.50 |
| C | 0.22 | 0.30 | 0.15 | 0.35 | 0.22 | 0.30 |
| D | 0.076 | 0.33 | 0.05 | 0.20 | 1.27 | 2.03 |
| E | — | 10.40 | — | 7.0 | 7.60 | 8.90 |
| G | 1.02 | 1.53 | 0.70 | 1.10 | 3.81 | 4.69 |
| H | 8.13 | 8.51 | 4.5 | 4.9 | 8.13 | 8.51 |
| J | 2.40 | 3.40 | 2.8 | 2.9 | 2.40 | 3.40 |
| K | 5.00 | 5.20 | 2.5 | 2.7 | 5.00 | 5.20 |
| L | 1.00 | 1.20 | 0.50 | 0.80 | 0.46 | 0.58 |

DF-M

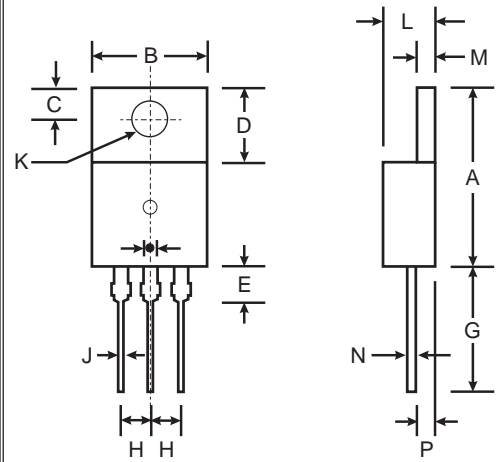


TO-220AC

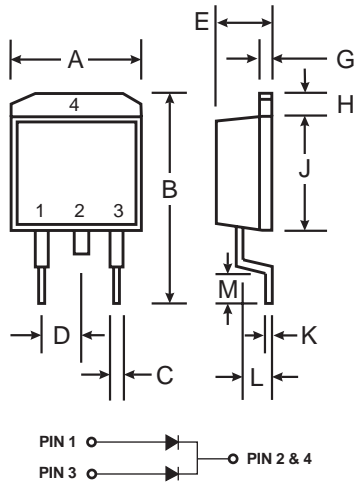


| Dim | Min | Max |
|-----|--------------------|--------------------|
| A | 14.22 | 15.88 |
| B | 9.65 | 10.67 |
| C | 2.54 | 3.43 |
| D | 5.84 | 6.86 |
| E | — | 6.35 |
| G | 12.70 | 14.73 |
| H | 2.29 | 2.79 |
| J | 0.51 | 1.14 |
| K | 3.53 \varnothing | 4.09 \varnothing |
| L | 3.56 | 4.83 |
| M | 1.14 | 1.40 |
| N | 0.30 | 0.64 |
| P | 2.03 | 2.92 |
| R | 4.83 | 5.33 |

TO-220AB

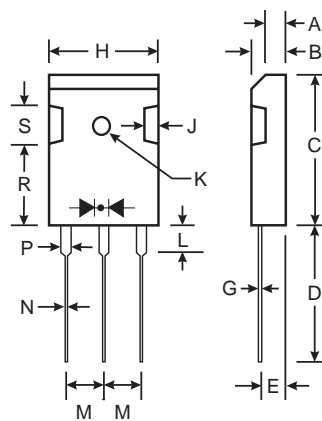


D²PAK



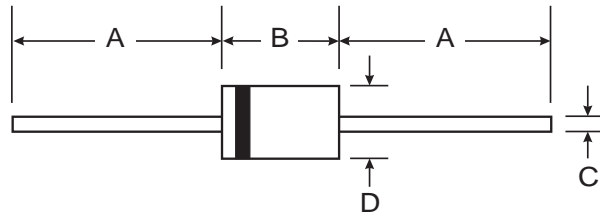
| Dim | Min | Max |
|-----|-------|-------|
| A | 9.65 | 10.69 |
| B | 14.60 | 15.88 |
| C | 0.51 | 1.14 |
| D | 2.29 | 2.79 |
| E | 4.37 | 4.83 |
| G | 1.14 | 1.40 |
| H | 1.14 | 1.40 |
| J | 8.25 | 9.25 |
| K | 0.30 | 0.64 |
| L | 2.03 | 2.92 |
| M | 2.29 | 2.79 |

TO-3P



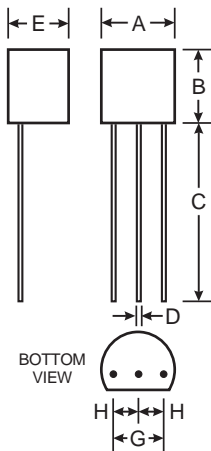
| Dim | Min | Max |
|-----|--------------------|--------------------|
| A | 3.20 | 3.50 |
| B | 4.59 | 5.16 |
| C | 20.80 | 21.30 |
| D | 19.70 | 20.20 |
| E | 2.10 | 2.40 |
| G | 0.51 | 0.76 |
| H | 15.90 | 16.40 |
| J | 1.70 | 2.70 |
| K | 3.10 \varnothing | 3.30 \varnothing |
| L | 3.50 | 4.51 |
| M | 5.20 | 5.70 |
| N | 1.12 | 1.22 |
| P | 2.90 | 3.30 |
| R | 11.70 | 12.80 |
| S | 4.30 Typical | |

Axial Devices (Through-Hole)



| Dim | A | | B | | C | | D | |
|----------------------|-------|-----|------|------|-------|-------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max |
| A-405 | 25.40 | — | 4.10 | 5.20 | 0.53 | 0.64 | 2.00 | 2.70 |
| DO-35 | 25.40 | — | — | 4.00 | — | 0.60 | — | 2.00 |
| DO-41 Plastic | 25.40 | — | 4.06 | 5.21 | 0.71 | 0.864 | 2.00 | 2.72 |
| DO-41 Glass | 25.40 | — | — | 4.70 | — | 0.863 | — | 2.71 |
| DO-15 | 25.40 | — | 5.50 | 7.62 | 0.686 | 0.889 | 2.60 | 3.60 |
| DO-201 | 25.40 | — | 8.50 | 9.53 | 0.96 | 1.06 | 4.80 | 5.21 |
| DO-201AD | 25.40 | — | 7.20 | 9.50 | 1.20 | 1.30 | 4.80 | 5.30 |
| R-6 | 25.40 | — | 8.60 | 9.10 | 1.20 | 1.30 | 8.60 | 9.10 |
| T-1 | 25.40 | — | 2.60 | 3.20 | 0.53 | 0.64 | 2.20 | 2.60 |
| 5W | 25.40 | — | 8.38 | 8.89 | 0.94 | 1.09 | 3.30 | 3.68 |
| 5KP | 25.40 | — | — | 8.60 | 0.95 | 1.07 | — | 9.53 |
| 5KW | 25.40 | — | — | 9.00 | 1.20 | 1.30 | — | 8.00 |

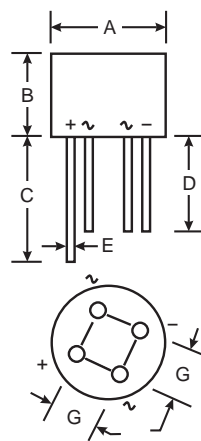
TO-92



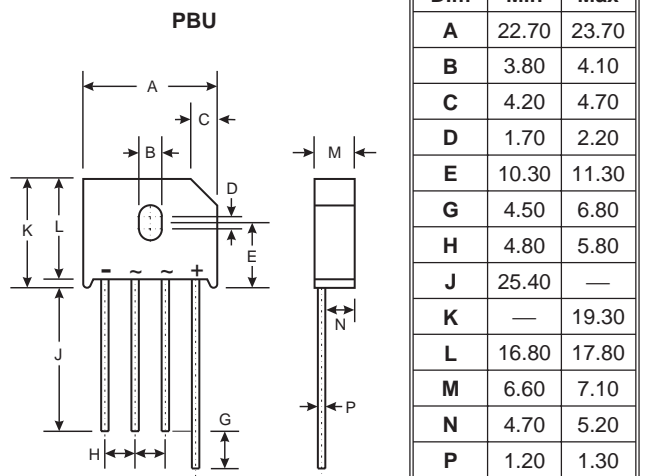
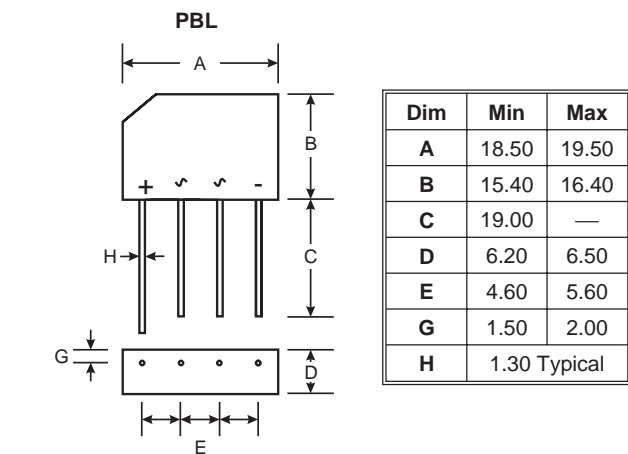
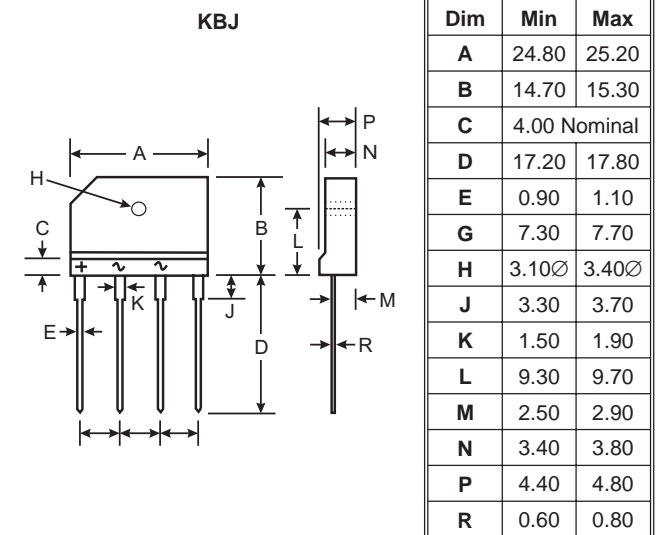
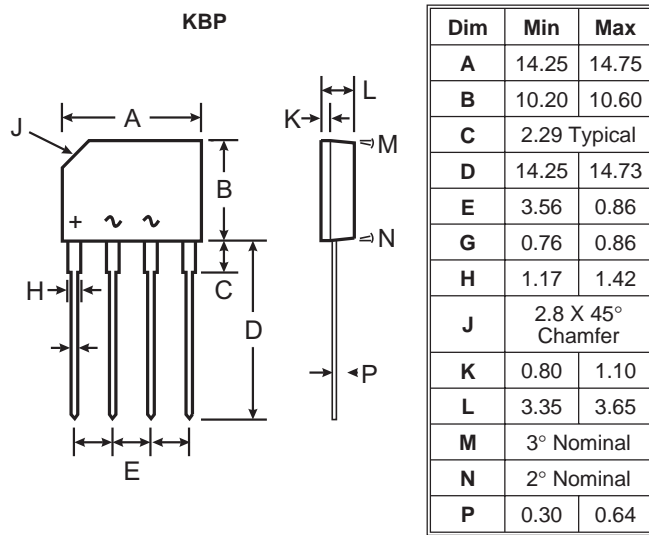
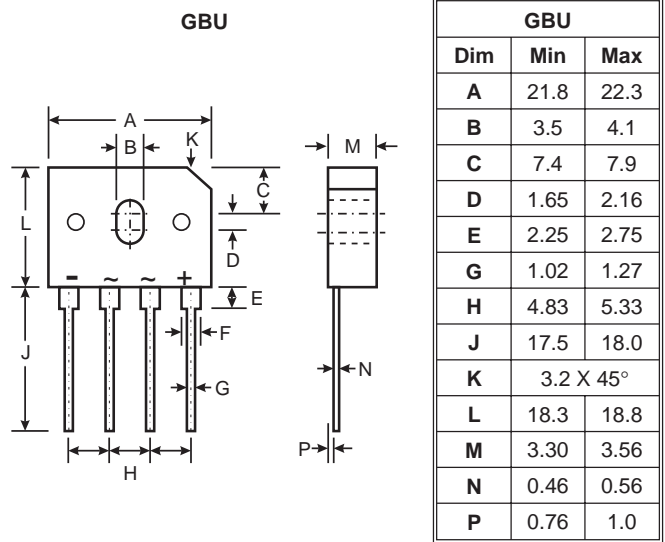
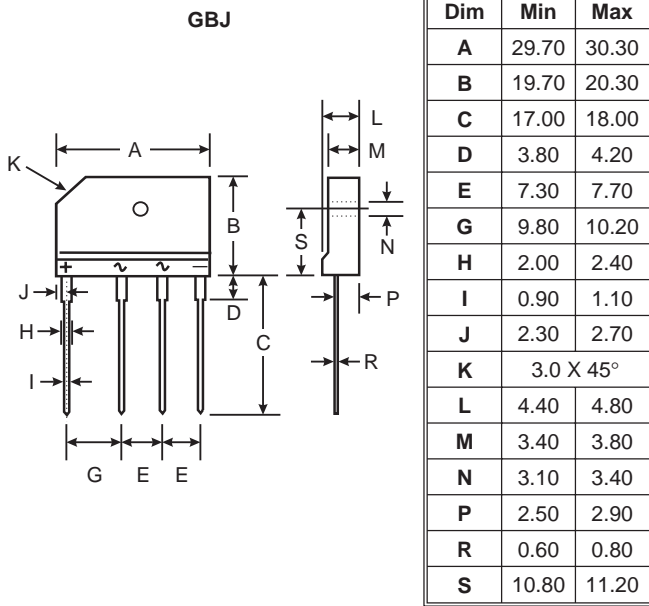
| Dim | Min | Max |
|----------|-------|-------|
| A | 4.32 | 4.83 |
| B | 4.32 | 4.78 |
| C | 12.50 | 15.62 |
| D | 0.36 | 0.56 |
| E | 3.15 | 3.94 |
| G | 2.29 | 2.79 |
| H | 1.14 | 1.40 |

Lead configuration shown is for bulk product packaging only.
See ANSI/EIA-486 for Radial Tape specifications.

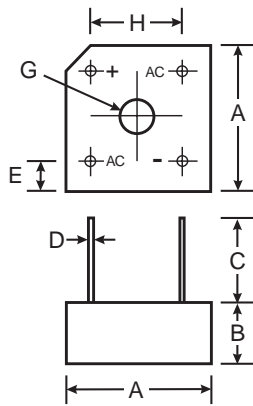
WOG



| Dim | Min | Max |
|----------|-------|------|
| A | 8.84 | 9.86 |
| B | 4.00 | 4.60 |
| C | 27.90 | — |
| D | 25.40 | — |
| E | 0.71 | 0.81 |
| G | 4.60 | 5.60 |

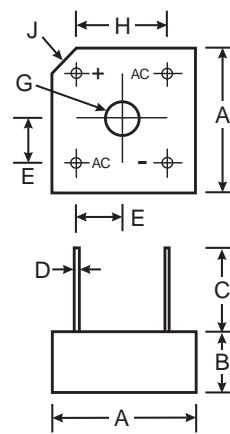


PBPC-3



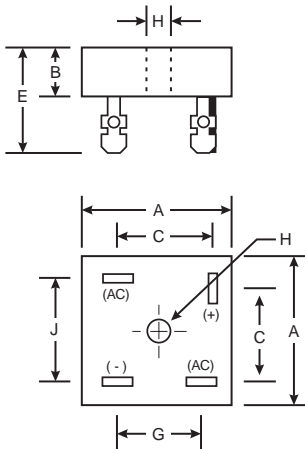
| Dim | Min | Max |
|-----|-------------------|-------|
| A | 14.73 | 15.75 |
| B | 5.84 | 6.86 |
| C | 19.00 | — |
| D | 0.76Ø Typical | |
| E | 1.70 | 2.70 |
| G | Hole for #6 screw | |
| | 3.60 | 4.00 |
| H | 10.30 | 11.30 |

PBPC-8



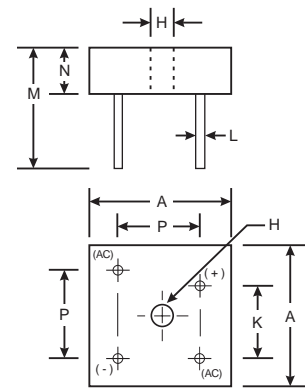
| Dim | Min | Max |
|-----|--------------------|-------|
| A | 18.54 | 19.56 |
| B | 6.35 | 7.60 |
| C | 22.20 | — |
| D | 1.27Ø Typical | |
| E | 5.33 | 7.37 |
| G | 3.60Ø | 4.00Ø |
| H | 12.70 Typical | |
| J | 2.38 X 45° Typical | |

MP / GBPC

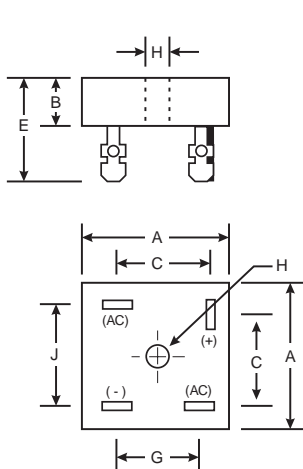


| Dim | Min | Max |
|-----|--------------------|-------|
| A | 28.30 | 28.80 |
| B | 7.40 | 8.00 |
| C | 16.10 | 17.10 |
| E | 18.80 | 21.30 |
| G | 13.80 | 14.80 |
| H | Hole for #10 screw | |
| | 4.85Ø | 5.59Ø |
| J | 17.60 | 18.60 |
| K | 10.90 | 11.90 |
| L | 0.97Ø | 1.07Ø |
| M | 26.4 | — |
| N | 7.40 | 8.00 |
| P | 17.60 | 18.60 |

MP-W / GBPC-W

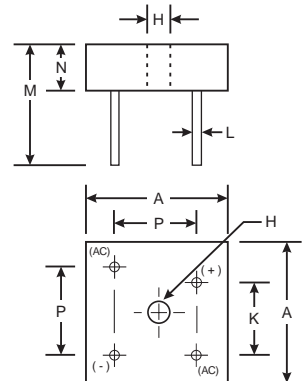


MB / KBPC



| Dim | Min | Max |
|-----|--------------------|-------|
| A | 28.40 | 28.70 |
| B | 10.97 | 11.23 |
| C | 15.50 | 17.60 |
| E | 22.86 | 25.40 |
| G | 13.30 | 15.30 |
| H | Hole for #10 screw | |
| | 4.85Ø | 5.59Ø |
| J | 17.10 | 19.10 |
| K | 10.40 | 12.40 |
| L | 0.97Ø Nominal | 1.07Ø |
| M | 30.50 | — |
| N | 10.97 | 11.23 |
| P | 17.10 | 19.10 |

MB-W / KBPC-W



Suggested Pad Layout

Based on IPC-SM-782

| Figure 1 Dimensions | MicroMELF | MiniMELF QuadroMELF | MELF | SOD-323 | SOD-123 | SMA | SMB | SMC |
|---------------------|-----------|---------------------|----------|----------|----------|----------|----------|----------|
| Z | 3.0 | 4.8 | 6.3 | 3.75 | 4.9 | 6.6 | 6.7 | 9.3 |
| G | 1.4 | 2.1 | 3.3 | 1.05 | 2.5 | 1.5 | 1.8 | 4.4 |
| X | 1.5 | 1.7 | 2.7 | 0.65 | 0.7 | 1.7 | 2.3 | 3.3 |
| Y | 0.8 ref. | 1.3 ref. | 1.5 ref. | 1.35ref. | 1.2 ref. | 2.6 ref. | 2.5 ref. | 2.5 ref. |

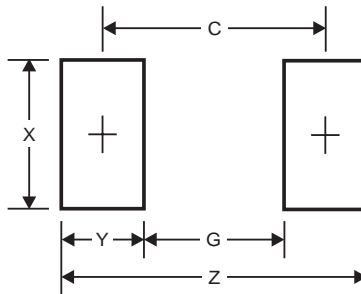


Fig. 1

| Figure 2 Dimensions | SOT-323 | SOT-23 | SC-59 |
|---------------------|---------|----------|---------|
| Z | 3.0 | 3.4 | 4.0 |
| G | 0.6 | 0.7 | 1.2 |
| X | 0.8 | 0.9 | 0.9 |
| Y | 1.2ref. | 1.4 ref. | 1.4ref. |
| C | 1.2ref. | 2.0 ref. | 2.6ref |

| Figure 3 Dimensions | SOT-363 |
|---------------------|---------|
| Z | 2.5 |
| G | 1.3 |
| X | 0.42 |
| Y | 0.6ref. |
| C | 1.9ref. |

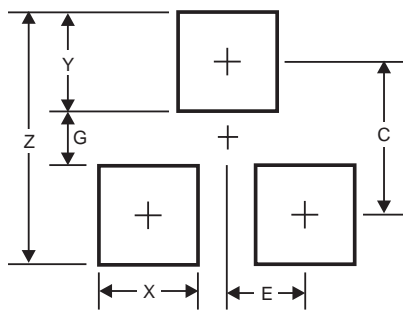


Fig. 2

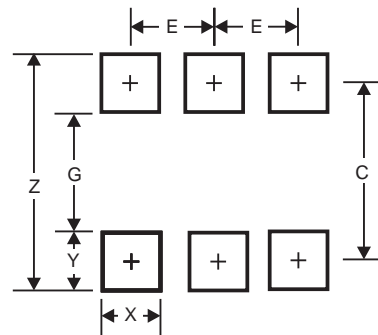


Fig. 3

ALL DIMENSIONS ARE NOMINAL VALUES SHOWN IN MILLIMETERS

Note: The suggested land pattern dimensions have been provided for reference only, as actual pad layout may vary depending on application. These numbers may be modified based on user equipment capability or fabrication criteria. A more robust pattern may be desired for wave soldering and is calculated by adding 0.2 mm to the 'Z' dimension. For further information, please reference document IPC-SM-782, Surface Mount Design and Land Pattern Standard, and for International grid details, please see document IEC, Publication 97.

| Figure 4 Dimensions | MiniDIP | DF-S |
|------------------------|----------|----------|
| Z | 8.1 | 11.5 |
| G | 4.4 | 6.9 |
| X | 0.9 | 1.3 |
| Y | 1.9 ref. | 2.3 ref. |
| C | 6.3 ref. | 9.2 ref. |

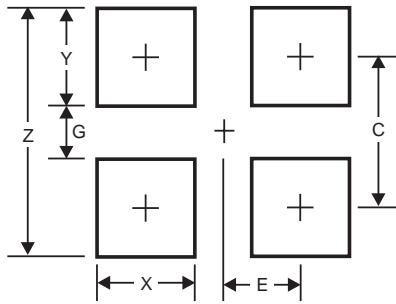


Fig. 4

| Figure 5 Dimensions | D ² PAK |
|------------------------|--------------------|
| Z | 16.9 |
| X1 | 1.1 |
| X2 | 10.8 |
| Y1 | 3.5 |
| Y2 | 11.4 |
| C | 9.5 ref. |
| E1 | 2.5 ref. |

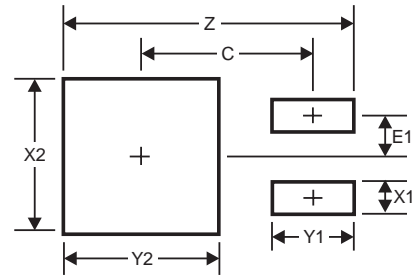


Fig. 5

ALL DIMENSIONS ARE NOMINAL VALUES SHOWN IN MILLIMETERS

Note: The suggested land pattern dimensions have been provided for reference only, as actual pad layout may vary depending on application. These numbers may be modified based on user equipment capability or fabrication criteria. A more robust pattern may be desired for wave soldering and is calculated by adding 0.2 mm to the 'Z' dimension. For further information, please reference document IPC-SM-782, Surface Mount Design and Land Pattern Standard, and for International grid details, please see document IEC, Publication 97.

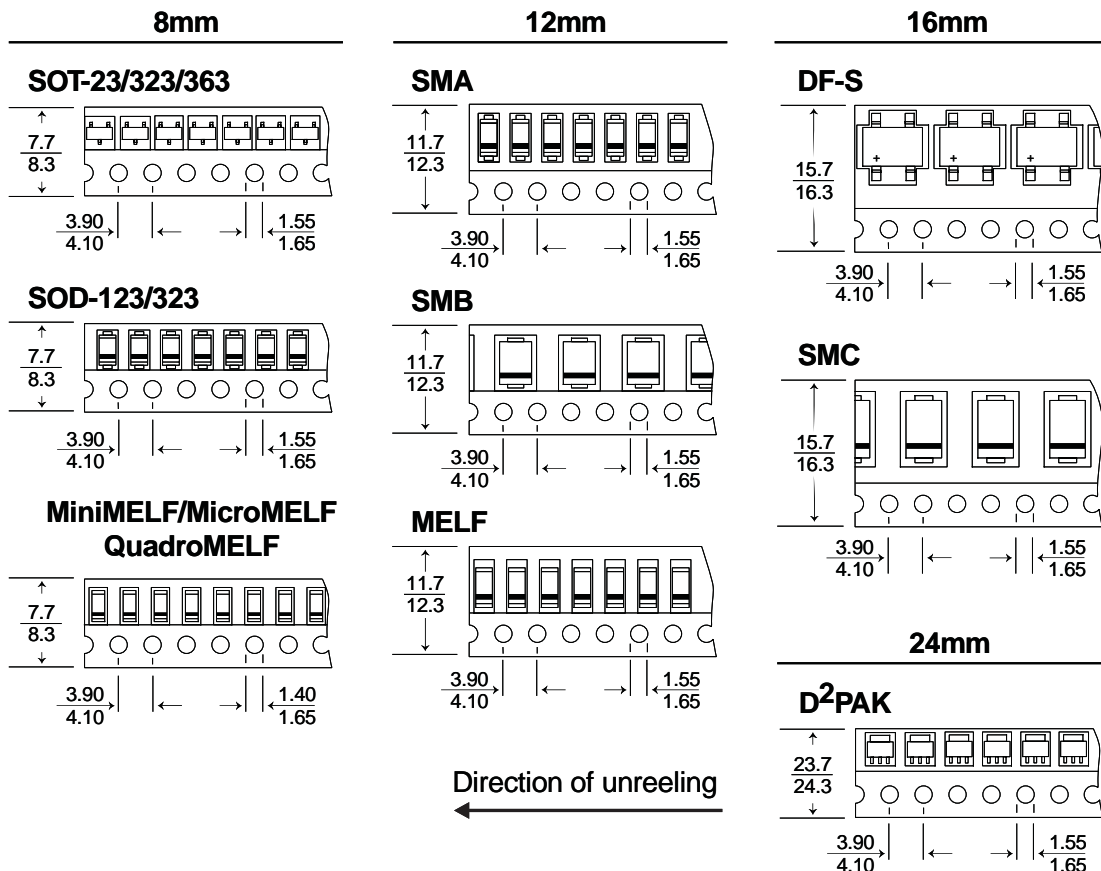
Surface Mount (SMD) Packaging

Reel and Courier Tape Specifications

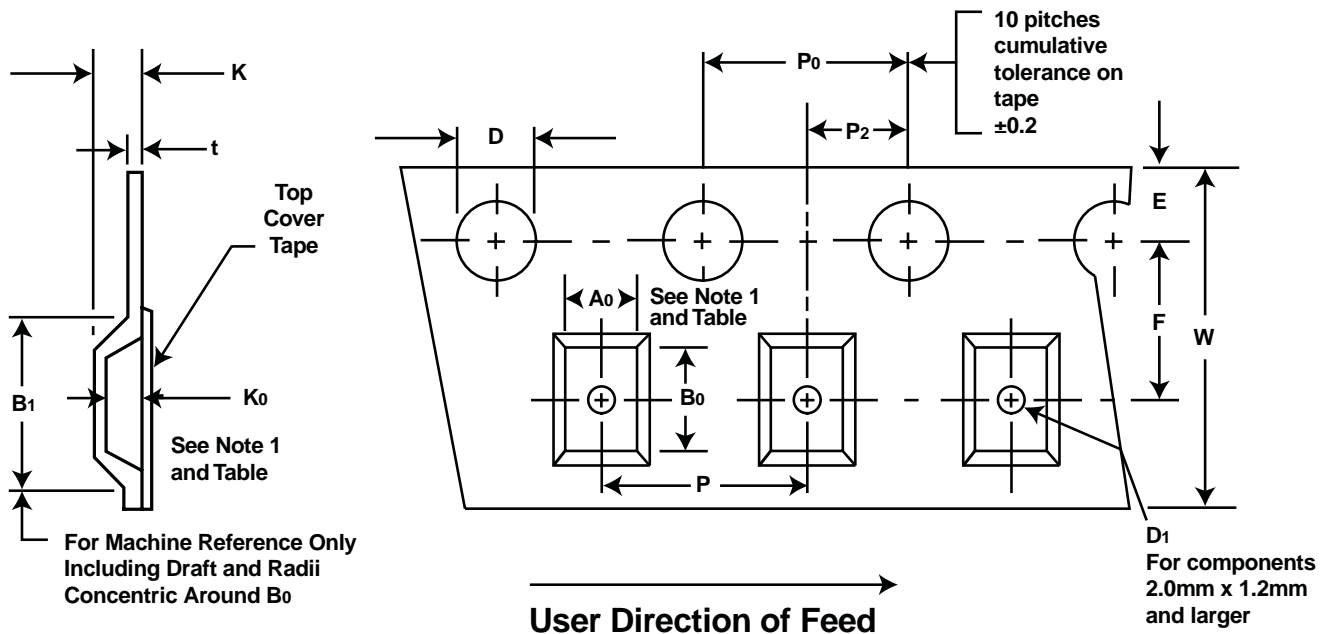
| MINIMUM PACKING QUANTITY | | | |
|--------------------------|--------------------|----------------------------------|-----------------------------------|
| PACKAGE TYPE | Bulk Tube Quantity | Tape and Reel 7"Ø Quantity ("R") | Tape and Reel 13"Ø Quantity ("T") |
| SOT-23/323/363 | NA | 3K | NA |
| SOD-123/323 | NA | 3K | NA |
| MicroMELF | NA | 2.5K | 10K |
| QuadroMELF | NA | 2.5K | 10K |
| MiniMELF | NA | 2.5K | 10K |
| MELF | NA | NA | 5K |
| SMA | NA | 1.5K | 5K |
| SMB | NA | 500 | 3K |
| SMC | NA | NA | 3K |
| DF-S | 50 | NA | 1.5K |
| D ² PAK | NA | NA | 800 |

Note: Package quantities are for minimum packaging quantity only, not minimum order quantity. For minimum order quantity, please consult the Sales Department.

Tape Dimensions and Orientation: (Dimensions in mm)



EMBOSED CARRIER TAPE SPECIFICATIONS



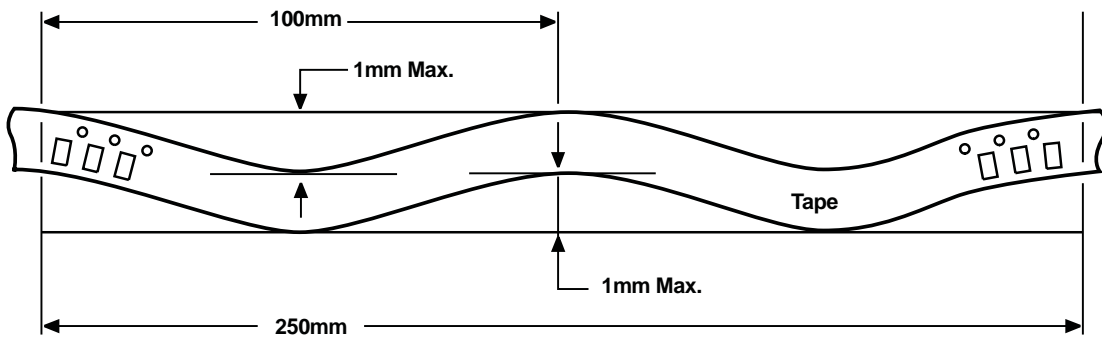
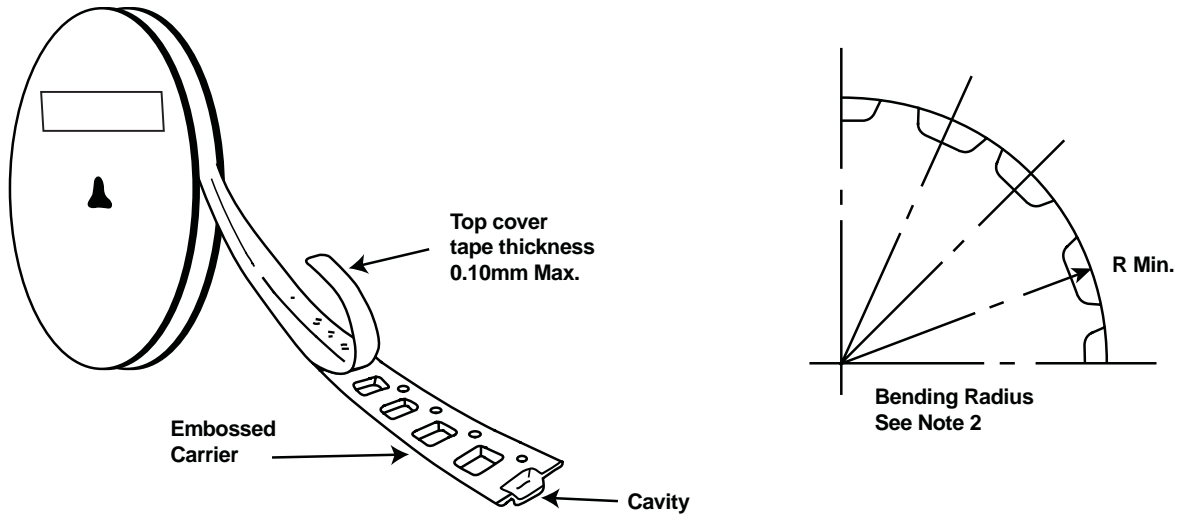
(8, 12, 16, 24mm Tape)

| 8, 12, 16, 24mm EMBOSED TAPE DIMENSIONS IN mm | | | | | | |
|---|-----------------------|-----------------|----------------|-----------|---------------|---------------------|
| Tape Size | D | E | P_0 | t_{max} | $A_0 B_0 K_0$ | Constant Dimensions |
| 8, 12, 16, 24mm | $1.55^{+0.10}_{-0.0}$ | 1.75 ± 0.10 | 4.0 ± 0.10 | 0.400 | See Note 1 | |

| Tape Size | B_1 max | D_1 min | F | K max | P_2 | R min | W | Product Type |
|-----------|-----------|-----------|-----------------|--------------|----------------------------------|-------|-----------------|--|
| 8mm | 4.5 | 1.0 | 3.5 ± 0.05 | 2.4 | 2.0 ± 0.05 | 25 | 8.0 ± 0.30 | SOT-23, MiniMELF, SOD-123, MicroMELF, QuadromELF |
| 12mm | 8.2 | 1.5 | 5.5 ± 0.05 | 4.5 | 2.0 ± 0.05 | 30 | 12.0 ± 0.30 | MELF, SMA, SMB |
| 16mm | 12.1 | 1.5 | 7.5 ± 0.10 | 3.29 3.70 | 2.0 ± 0.10 4.0 ± 0.10 | 40 | 16.0 ± 0.30 | SMC DF-S |
| 24mm | 20.1 | 1.5 | 11.5 ± 0.10 | 6.5 | 2.0 ± 0.10 | 50 | 24.0 ± 0.30 | D ² PAK |

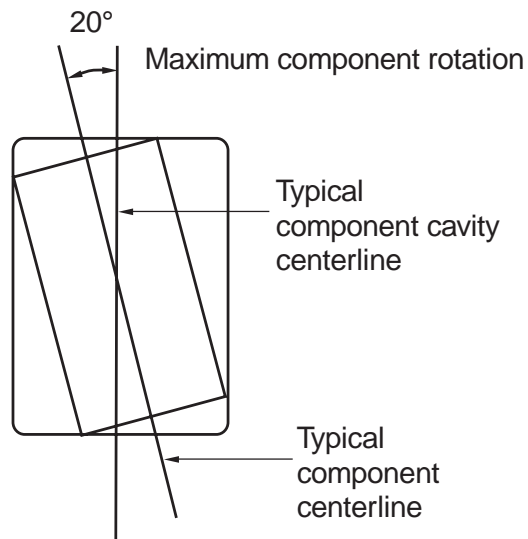
| Tape Size | P | | | |
|-----------|----------------|----------------|-----------------|-----------------|
| | 4.0 ± 0.10 | 8.0 ± 0.10 | 12.0 ± 0.10 | 16.0 ± 0.10 |
| 8mm | X | — | — | — |
| 12mm | X | X | — | — |
| 16mm | — | X | X | — |
| 24mm | — | — | — | X |

- Notes:
- $A_0 B_0 K_0$ are determined by component size. The clearance between the component and the cavity must be within 0.05mm min. to 0.50mm max. for 8mm tape, 0.05mm min. to 0.65 mm max. for 12mm tape and 0.15mm min. to 0.90mm max. for 16mm tape. Add 0.05mm min. to 1.00mm min. for 24mm tape and larger. The component cannot rotate more than 20° within the determined cavity, see sketch next page.
 - Tape and components shall pass around radius 'R' without damage.



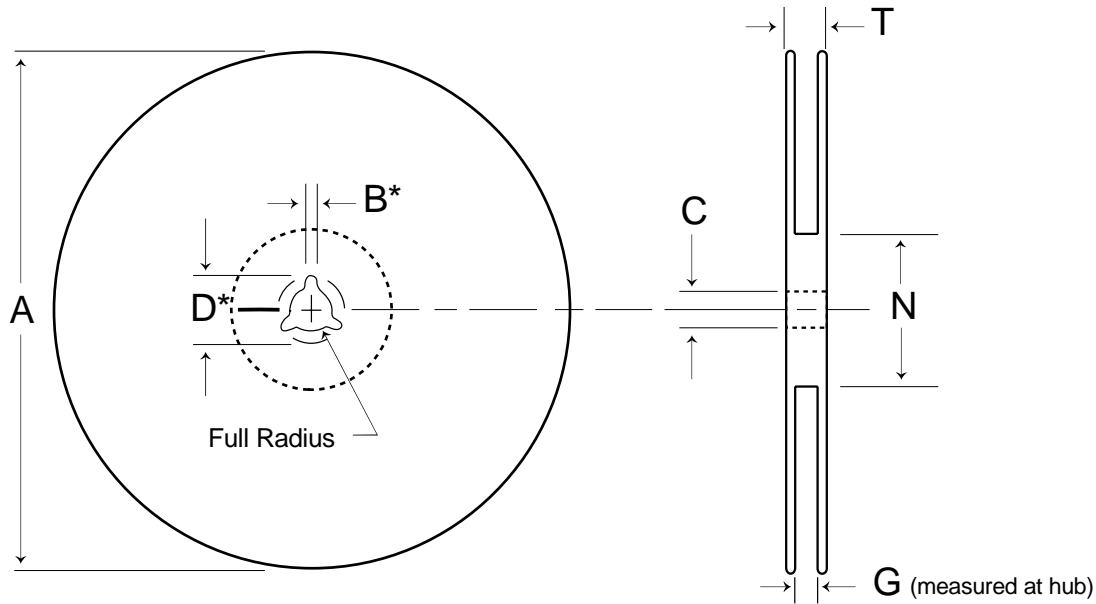
Camber (Top View)

Allowable camber to be 1.0mm/100mm non-accumulative over 250mm



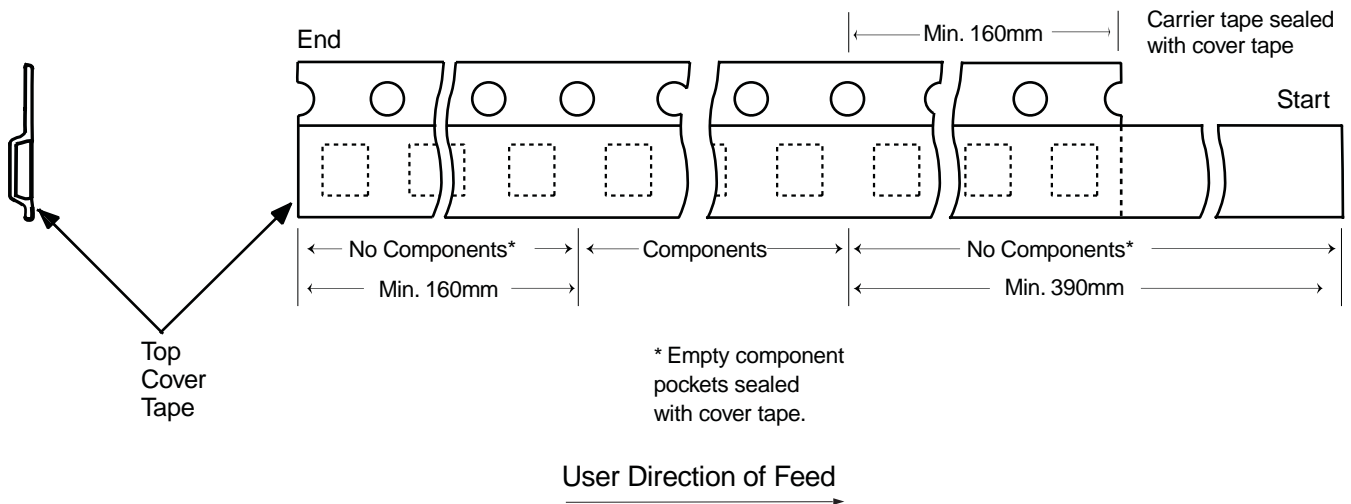
SURFACE MOUNT CARRIER TAPE SPECIFICATIONS SURFACE MOUNT REEL SPECIFICATIONS

(All Dimensions in mm)



* Drive spokes optional. If used, dimensions with asterisks apply.

| Tape Size | A Max | B* Max | C | D* Max | N Min | G | T Max |
|-----------|-------|--------|-------------|--------|-------|--------------------------------------|-------|
| 8mm | 330 | 1.5 | 13.0 ± 0.20 | 20.2 | 50 | 8.4 ^{+1.5} _{-0.0} | 14.4 |
| 12mm | 330 | 1.5 | 13.0 ± 0.20 | 20.2 | 50 | 12.4 ^{+2.0} _{-0.0} | 18.4 |
| 16mm | 330 | 1.5 | 13.0 ± 0.20 | 20.2 | 50 | 16.4 ^{+2.0} _{-0.0} | 22.4 |
| 24mm | 330 | 1.5 | 13.0 ± 0.20 | 20.2 | 50 | 24.4 ^{+2.0} _{-0.0} | 30.4 |



Tape Leader and Trailer

Through-hole Packaging

Reels, Ammo Packs, & Taping Specifications

MINIMUM PACKAGING QUANTITY

| MINIMUM PACKING QUANTITY | | | | | |
|--------------------------|---------------------|-------------------|-------------------|-------------------|------------------|
| Device Type | Available Packaging | | | | |
| | Bulk | | | 13"Ø Tape & Reel | Ammo Pack |
| | Quantity per Box | Quantity per Tube | Quantity per Tray | Quantity per Reel | Quantity per Box |
| 5KP | 500 | | | 500 / 700* | |
| 5W | 1K | | | 3K | |
| 5KW | | | | 1K | |
| A-405 | 1K | | | 5K | 3K |
| DF-M | 5K | 50 | | | |
| DO-15 | 500 / 800 / 1K* | | | 4K | 2K |
| DO-201 | 1K | | | 1K / 1.2K* | 1K |
| DO-201AD | 500 / 1K* | | | 1.2K | 1K |
| DO-35 | 500 | | | 10K | 5K / 10K* |
| DO-41 | 500 / 1K* | | | 5K | 3K / 5K* |
| GBJ | 750 | 15 | | | |
| GBPC/W | | | 100 | | |
| GBU | 1K | 20 | | | |
| KBJ | 1K | 20 | | | |
| KBP | 3.5K | 35 | | | |
| KBPC/W | | | 100 | | |
| MB/W | | | 100 | | |
| MP/W | | | 100 | | |
| PBL | | | 100 | | |
| PBPC-3 | | | 200 | | |
| PBPC-8 | 150 | | | | |
| PBU | | | 100 | | |
| R-6 | 200 / 500* | | | 500 / 700* | |
| T-1 | 1K | | | 5K | 3K |
| TO-220AB/AC | 2K | 50 | | | |
| TO-3P | 1.2K | 30 | | | |
| TO-92 | 2K / 5K* | | | | 2K / 4K* |
| WOG | 1K | | | | |

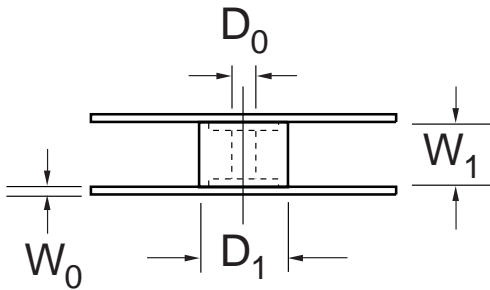
* Quantity varies by Part Number.

Note: Package quantities given are for minimum packing quantity only, not minimum order quantity. For minimum order quantity, please consult the Sales Department.

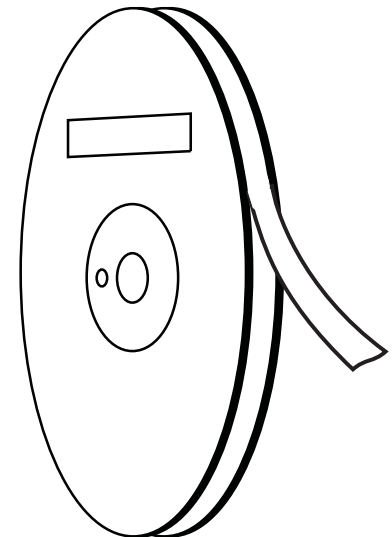
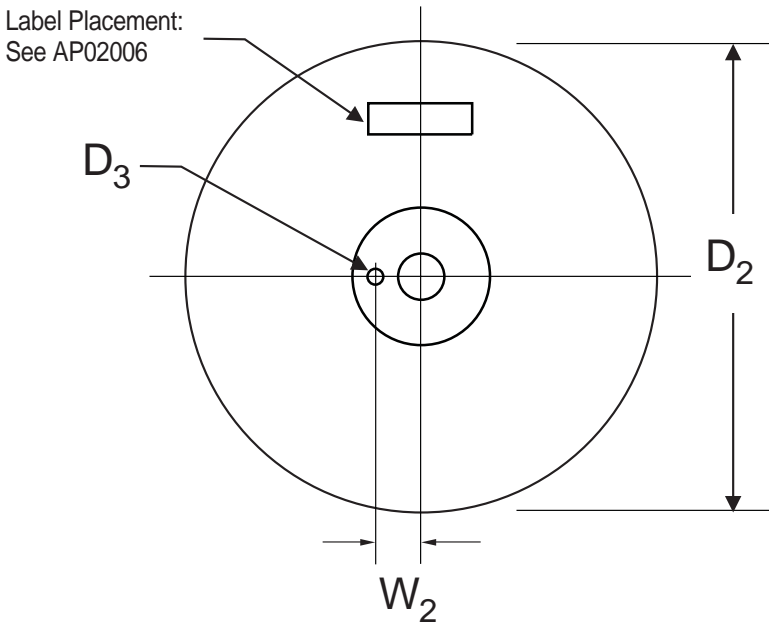
PRODUCT REEL DIMENSIONS/SPECIFICATIONS

| PRODUCT REEL | | | | | |
|--------------------------|--------|-----------------|------------------|-----------------|------------------|
| Description | Symbol | Specification | | Alternate | |
| | | Inches | Millimeters | Inches | Millimeters |
| Arbor Hole Diameter | D_0 | 0.65 ± 0.02 | 16.6 ± 0.50 | 1.18 ± 0.02 | 30.0 ± 0.50 |
| Core Diameter (O.D.) | D_1 | 3.2 Typical | 81.0 Typical | 3.2 Typical | 81.0 Typical |
| Reel Diameter | D_2 | 13.6 ± 0.6 | 345.0 ± 15.0 | 10.25 ± 0.6 | 260.0 ± 15.0 |
| Drive Hole Diameter | D_3 | 0.38 ± 0.02 | 9.5 ± 0.5 | 0.38 ± 0.02 | 9.5 ± 0.5 |
| Material Thickness | W_0 | 0.08 – 0.16 | 2.0 – 4.0 | 0.08 – 0.16 | 2.0 – 4.0 |
| Reel Width | W_1 | 3.15 ± 0.20 | 80.0 ± 5.0 | 2.56 ± 0.20 | 65.0 ± 5.0 |
| Drive/Arbor Hole Spacing | W_2 | 1.08 ± 0.02 | 27.5 ± 0.5 | 1.08 ± 0.02 | 27.5 ± 0.5 |

Core material: plastic (blue/black) or metal (neutral)
 Reel material: corrugated board or plastic (blue or black)
 For label dimensions and placement see AP02006.



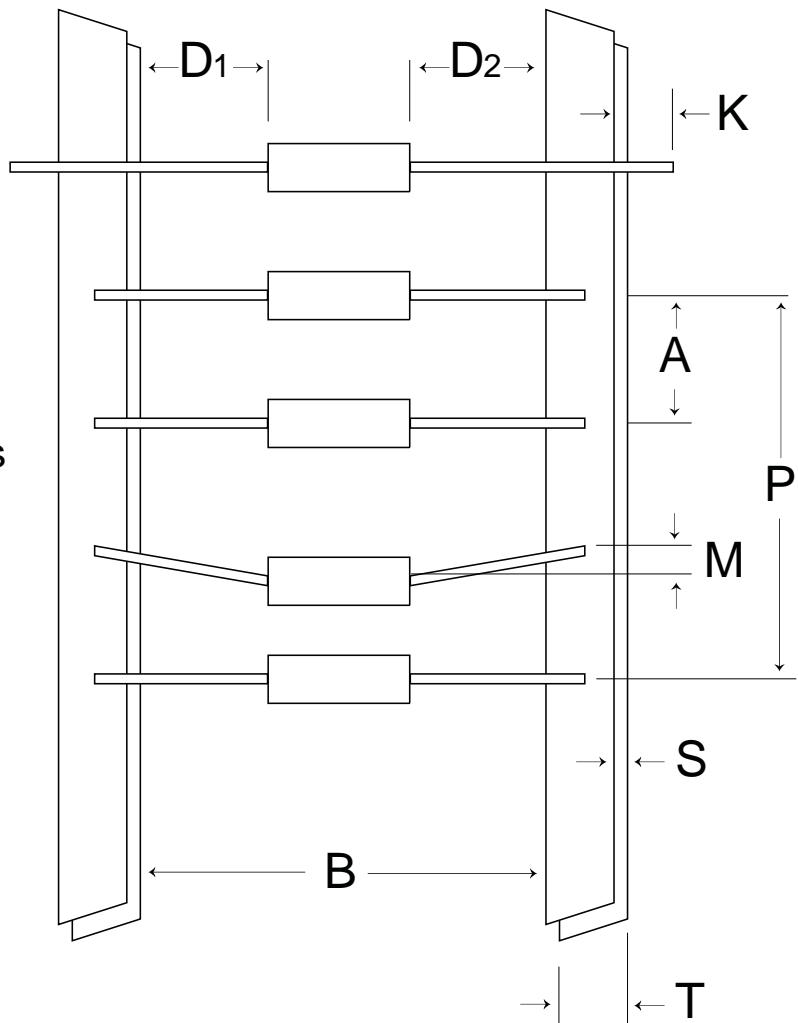
Direction of Unreeling



REEL/AMMO PACK TAPING SPECIFICATIONS

| REEL AND AMMO PACK TAPING SPECIFICATIONS | | | |
|--|---|---------------------------------|--------------------|
| Description | Symbol | Body | Specification (mm) |
| Component Pitch | A | DO-15, DO-35, DO-41, A-405, 5W | 5.0 ± 0.5 |
| | | DO-201, DO-201AD, 5KP, 5KW, R-6 | 10.0 ± 0.5 |
| Inside Tape Spacing | B | All | 52.4 ± 1.5 |
| Lead to Lead Eccentricity | $ D_1 - D_2 $ | All | 1.4 max |
| Lead Extension | K | All | 0.8 max |
| Lead Bending | M | All | 1.2 max |
| Cumulative Pitch | P | All | 2.0 per 10 pitch |
| Exposed Adhesive | S | All | 0.8 max |
| Tape Width | T | All | 6.0 ± 0.4 |
| Tape Leader | Beginning and end of reel or ammo pack | | 300.0 min |
| Empty Spaces | Consecutive missing components not allowed | | < 0.1% |
| Polarity Marking | All polarized components shall be oriented in the same direction. The cathode tape shall be colored, and the anode tape shall be white or light beige. Anode end must face label-side of reel. See AP02006 for label placement. | | |

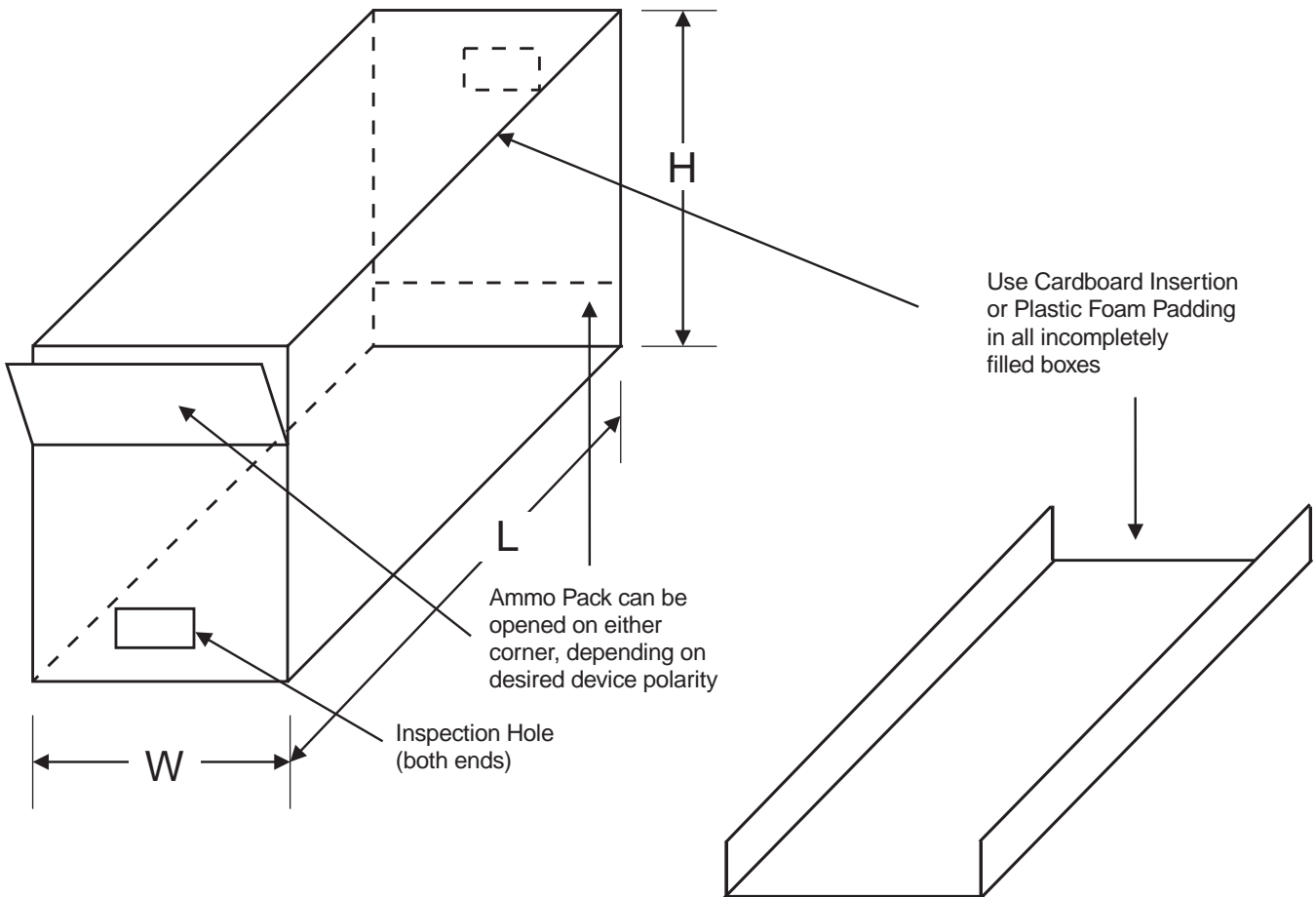
Dimensions A, M, K, P,
S, & T apply to both sides



AMMO PACK DIMENSIONS/SPECIFICATIONS

| AMMO PACK | | | | | | |
|-------------------------|------------|-----|-----------|-----|------------|-----|
| PRODUCT DESCRIPTION | HEIGHT (H) | | WIDTH (W) | | LENGTH (L) | |
| | inches | mm | inches | mm | inches | mm |
| DO-35, DO-41 Glass Case | 4.88 | 124 | 3.00 | 75 | 10.00 | 255 |
| DO-41 Plastic Case | 5.75 | 145 | 3.12 | 79 | 10.25 | 260 |
| TO-92 | TBA | TBA | TBA | TBA | TBA | TBA |

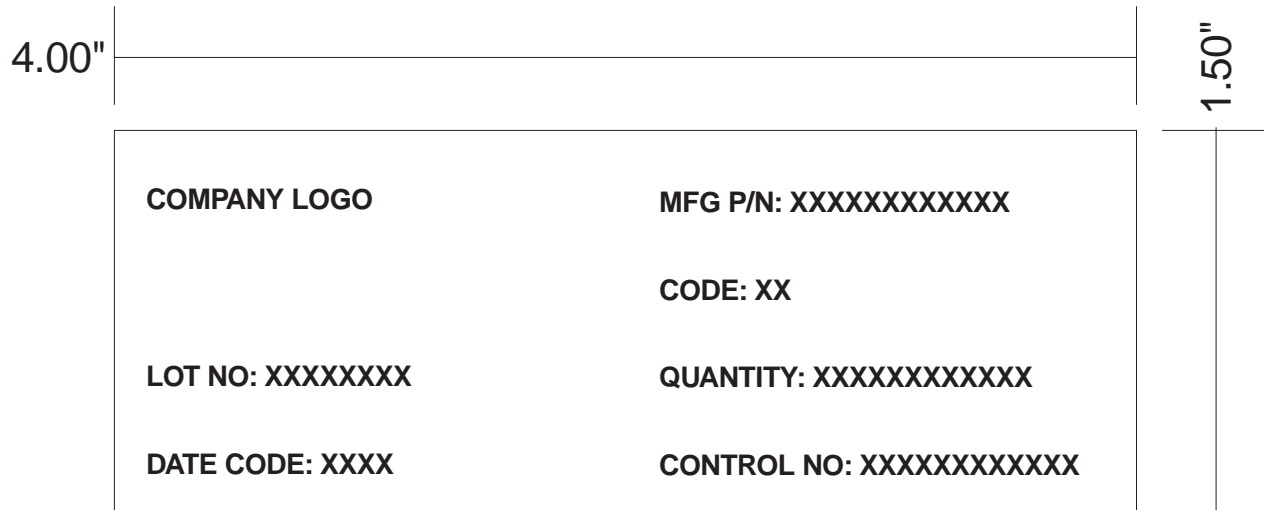
Material: corrugated board (neutral)
 Thickness: $3.00 \pm 0.5\text{mm}$ ($0.12 \pm 0.02"$)
 For label dimensions and placement see AP02006.



Product Label Specification

Label Placement/Dimensions, Definitions, & Part Designation

STANDARD PRODUCT LABEL



| PRODUCT LABEL FIELD FORMAT AND CODES INFORMATION | | |
|--|-------------------------|---|
| LABEL FIELD | FORMAT/MAX LENGTH | CONTENTS |
| LOT NO | 8 Digit / Alphanumeric | Contains the lot number of the wafer used to build the parts in the package (individual manufacturing plant format is acceptable.) |
| DATE CODE | 4 Digit / Numeric | Contains the first 2 digits for the year and the last 2 digits for the week of the year when product was manufactured. |
| MFG P/N | 12 Digit / Alphanumeric | Contains the part number assigned by Diodes Inc. The suffix indicates the type of packaging that the parts are in. |
| CODE | 2 Digit / Alphanumeric | Contains the manufacturing plant code assigned by Diodes Inc. |
| QUANTITY | 12 Digit / Numeric | Contains the quantity in the reel or box that the label is attached to. |
| CONTROL NO. | 12 Digit / Alphanumeric | Contains information about operator, equipment used and work time or shift the parts were manufactured (individual manufacturing plant format is acceptable.) |

1. Product Labels must be affixed to all product reels, trays, and inner boxes.
2. Product Labels must follow the format outlined in this specification.
3. Labels may be printed by any means or technology including, but not limited to, dot matrix, thermal transfer, laser, or ink jet printing.
4. See AP02005 for carton dimensions/specifications.
5. All product will be periodically inspected for conformance to this specification.
6. Logo and all printing in black only.

PART NUMBER DESCRIPTION

The table below shows Part Number components and provides the meaning of each suffix that may be used.

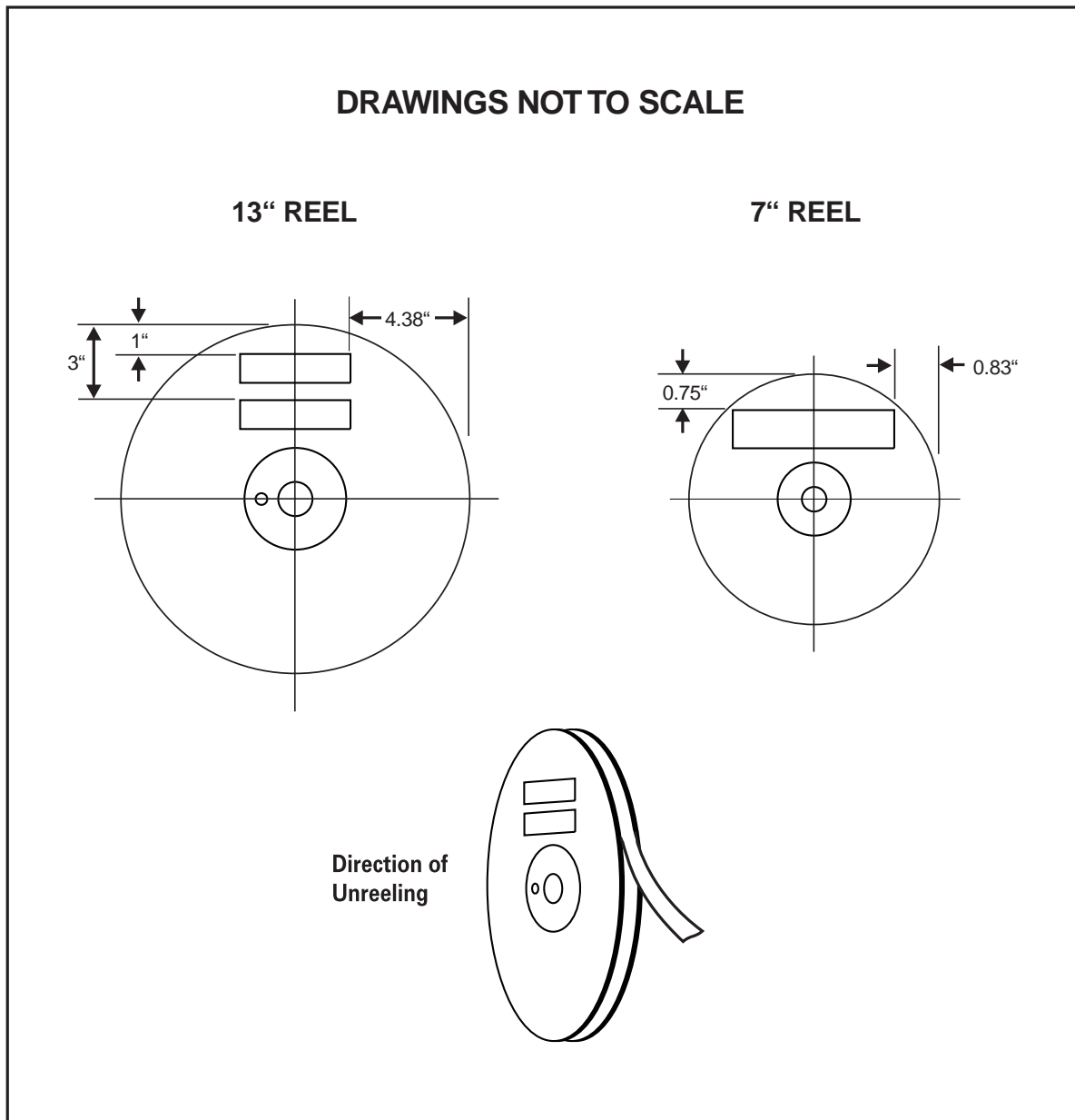
| PART NUMBER DESCRIPTION | | | |
|-------------------------|-------------|--------|-----------------------|
| EXAMPLE | GENERIC P/N | SUFFIX | DESIGNATION |
| 1N4004-T | 1N4004 | T | Tape and Reel (Axial) |
| 1N5401-B | 1N5401 | B | Bulk/Tray |
| LL4148-7 | LL4148 | 7 | 7" Reel (SMD) |
| BAV20-13 | BAV20 | 13 | 13" Reel |
| 1N4728A-A | 1N4728A | A | Ammo Box |
| KBJ401G | KBJ401G | | Tube |

1. All references to parts/product must be in accordance to the above designations.

LABEL PLACEMENT

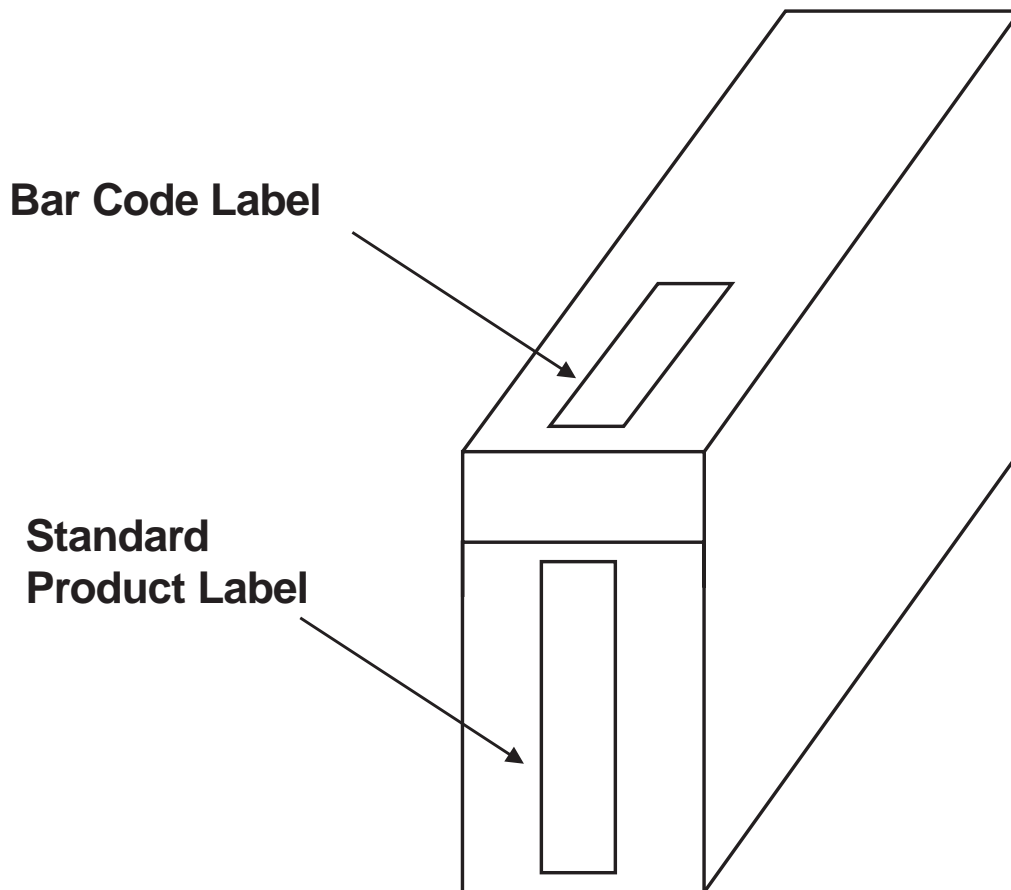
1. All product labels must be placed per this specification.
2. Bar Code label placement for both inner and outer cartons are per Bar Code Specification.
3. 7" reels require a bar code label only.
4. Label placement for 7" and 13" reels are per Figure 1 of this specification.
5. Label placement for Ammo Packs are per Figure 2 of this specification.
6. Product Labels must be affixed to all product reels, trays, ammo packs, and inner boxes.
7. All product will be periodically inspected for conformance to this specification.

7" AND 13" REEL LABEL PLACEMENT - FIGURE 1



1. All product labels must be clearly legible and shall be placed per this specification.
2. Labels shall be affixed to the top portion of each reel. Text shall be readable.
3. 7" reels shall include only a Bar Code label.
4. 13" reels shall contain both a Standard Product Label and a Bar Code Label. The bar code label shall be placed below the standard label.
5. All products will be periodically inspected for conformance to this specification.

AMMO PACK LABEL PLACEMENT - FIGURE 2



1. Standard Product Labels shall be affixed to the front side of ammo pack.
2. Bar Code Labels shall be affixed to the top of the ammo pack, 1" from front carton edge.
3. Labels will be centered between carton edges and may NOT cover carton openings.
4. Top of readable text shall be toward left side of carton.
5. All product labels must be placed per this specification.
6. All products will be periodically inspected for conformance to this specification.

Product Carton Specification

Outer/Inner Cartons, Designs

OUTER CARTON SPECIFICATIONS

| OUTER CARTON | | | | | | | | |
|--|------------|-----|-----------|-----|------------|-----|-------------|---------|
| PRODUCT DESCRIPTION | HEIGHT (H) | | WIDTH (W) | | LENGTH (L) | | CARTON TYPE | MAX QTY |
| | inches | mm | inches | mm | inches | mm | | |
| SMA, SMB | 13.38 | 340 | 13.75 | 350 | 13.38 | 340 | A | TBA |
| SMC | 16.50 | 420 | 13.75 | 350 | 13.38 | 340 | A | TBA |
| D ² PAK | 14.25 | 360 | 13.75 | 350 | 13.75 | 350 | A | TBA |
| TO-3P | 10.50 | 265 | 9.00 | 230 | 22.63 | 575 | B | TBA |
| TO-220AB, TO-220AC | 8.50 | 215 | 14.00 | 355 | 22.63 | 575 | B | TBA |
| DF-M | 12.50 | 315 | 13.00 | 330 | 19.75 | 500 | B | TBA |
| DF-S | 13.38 | 340 | 13.75 | 350 | 13.75 | 350 | A | TBA |
| DO-15, DO-41, A-405 Bulk | 9.88 | 250 | 8.25 | 210 | 17.75 | 450 | B | TBA |
| DO-201AD, R6 Bulk | 11.00 | 280 | 13.00 | 330 | 13.50 | 342 | A | TBA |
| 5KP, 5KW, 5W, DO-15, DO-41, DO-201AD, R6, T1 Tape and Reel | 13.38 | 340 | 13.38 | 340 | 13.38 | 340 | A | TBA |
| RS4, PBL | 12.08 | 315 | 11.38 | 290 | 13.00 | 330 | A | TBA |
| R2, PBP | 11.75 | 300 | 13.00 | 330 | 13.00 | 330 | A | TBA |
| RS6, PBU | 11.75 | 300 | 13.00 | 330 | 13.00 | 330 | A | TBA |
| PBPC-3/6A | 11.75 | 300 | 13.00 | 330 | 13.00 | 330 | A | TBA |
| PCPC-8/10A | 12.25 | 310 | 8.25 | 210 | 17.75 | 450 | B | TBA |
| KBPC, GBPC, MP, MB | 8.25 | 210 | 11.38 | 290 | 13.00 | 330 | A | TBA |
| WOG | 11.38 | 290 | 13.12 | 333 | 14.25 | 363 | A | TBA |
| KBJ | 9.63 | 245 | 9.06 | 230 | 22.44 | 570 | B | TBA |
| GBJ | 10.38 | 265 | 9.06 | 230 | 20.50 | 520 | B | TBA |
| KBP | 11.25 | 285 | 10.38 | 265 | 22.44 | 570 | B | TBA |
| TO-92 | 9.00 | 230 | 14.00 | 355 | 14.00 | 355 | A | TBA |
| SOT-23 | 8.00 | 203 | 18.00 | 457 | 18.00 | 457 | B | TBA |

1. All cartons must meet Rule 41 of the Uniform Freight Classification.
2. All carton printing must be from supplied camera ready art. Utilize figures 1-4 of this specification.
3. Printed carton color must be Black.
4. Dimension tolerance is ± 0.20 " or ± 5.0 mm.
5. General carton design types A and B must be followed. Due to varying carton shapes, it may be necessary to scale or reposition design elements to match general format.
6. Inner and Outer carton must be affixed with Bar Code Labels as outlined in QP-086.
7. Carton samples or layout must be submitted to Quality Assurance prior to first article shipment.
8. Product Packaging will periodically be inspected for compliance to this specification.

INNER CARTON SPECIFICATIONS

| INNER CARTON | | | | | | |
|-----------------------------|------------|-----|-----------|-----|------------|-----|
| PRODUCT DESCRIPTION | HEIGHT (H) | | WIDTH (W) | | LENGTH (L) | |
| | inches | mm | inches | mm | inches | mm |
| SMC - Top | 2.05 | 52 | 13.25 | 335 | 13.25 | 335 |
| SMC - Bottom | 2.00 | 50 | 13.00 | 330 | 13.00 | 330 |
| D ² PAK - Top | 1.50 | 38 | 13.25 | 335 | 13.25 | 335 |
| D ² PAK - Bottom | 1.45 | 37 | 13.00 | 330 | 13.00 | 330 |
| TO-3P | 4.75 | 120 | 7.88 | 200 | 21.63 | 550 |
| TO-220AB, TO-220AC | 3.75 | 95 | 6.50 | 165 | 21.88 | 555 |
| DO-15, DO-41, A-405 Bulk | 0.75 | 20 | 3.38 | 84 | 7.75 | 198 |
| DO-201AD, R6 Bulk | 1.50 | 38 | 3.25 | 76 | 11.88 | 302 |
| PCPC-8/10A - Top | 2.25 | 55 | 8.06 | 205 | 8.06 | 205 |
| PCPC-8/10A - Bottom | 2.06 | 53 | 7.88 | 200 | 7.88 | 200 |
| KBPC, GBPC, MP, MB | 0.56 | 15 | 12.63 | 280 | 12.63 | 320 |
| WOG - Top | 2.63 | 67 | 6.81 | 173 | 9.75 | 246 |
| WOG - Bottom | 2.56 | 65 | 6.50 | 165 | 9.56 | 243 |
| KBJ | 0.38 | 110 | 0.75 | 200 | 21.63 | 550 |
| GBJ | 4.75 | 120 | 0.75 | 200 | 19.75 | 500 |
| KBP | 5.12 | 130 | 9.25 | 235 | 21.63 | 550 |

1. All cartons must meet Rule 41 of the Uniform Freight Classification.
2. Dimension tolerance is $\pm 0.20''$ or $\pm 5.0\text{mm}$.
3. Inner and Outer carton must be affixed with Bar Code Labels as outlined in QP-086.
4. Product Packaging will periodically be inspected for compliance to this specification.

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