
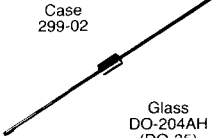




# Zener and Avalanche Regulator Diodes

## Table 28. General-Purpose Regulator Diodes

| Nominal Zener Voltage | 250 mW  |                                   | 250 mW  |                                   | 350 mW   |                                   | 400 mW                              |   | 500 mW    |           |  |
|-----------------------|---|-----------------------------------|---|-----------------------------------|--|-----------------------------------|-------------------------------------|---|-----------|-----------|--|
|                       | Low Level Cathode = Polarity Mark   | Low Noise Cathode = Polarity Mark | Low Level Cathode = Polarity Mark   | Low Noise Cathode = Polarity Mark | Cathode = Polarity Mark  | Low Noise Cathode = Polarity Mark | Low Leakage Cathode = Polarity Mark | Cathode = Polarity Mark   |           |           |  |
| (*Note 1)             | (*Notes 2,11)   |                                   | (*Note 2)   | (*Note 2)                         | (*Notes 5,13)  | (*Note 3)                         |                                     | (*Note 4)   | (*Note 8) | (*Note 9) |  |
|                       |  |                                   |  |                                   |  |                                   |                                     |  |           |           |  |
|                       | Glass Case 362-01   |                                   | Glass DO-204AH (DO-35)  |                                   | Case 318-05 Style 8 SOT-23   |                                   |                                     | Glass DO-204AH (DO-35)  |           |           |  |
| 1.8                   | MLL4678   | MLL4614                           | 1N4678  | 1N4614                            |  |                                   |                                     |   |           |           |  |
| 2                     | MLL4679   | MLL4615                           | 1N4679  | 1N4615                            |  |                                   |                                     |   |           |           |  |
| 2.2                   | MLL4680   | MLL4616                           | 1N4680  | 1N4616                            |  |                                   |                                     |   |           |           |  |
| 2.4                   | MLL4681   | MLL4617                           | 1N4681  | 1N4617                            |  |                                   |                                     |   |           |           |  |
| 2.5                   |   |                                   |   |                                   |  |                                   |                                     |   |           |           |  |
| 2.7                   | MLL4682   | MLL4618                           | 1N4682  | 1N4618                            |  |                                   |                                     |   | 1N4370    | 1N5221A   |  |
| 2.8                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N4371    | 1N5223A   |  |
| 3                     | MLL4683   | MLL4619                           | 1N4683  | 1N4619                            |  |                                   |                                     |   | 1N4372    | 1N5225A   |  |
| 3.3                   | MLL4684   | MLL4620                           | 1N4684  | 1N4620                            | MMBZ5226B  |                                   |                                     | 1N5518A   | 1N746     | 1N5226A   |  |
| 3.6                   | MLL4685   | MLL4621                           | 1N4685  | 1N4621                            | MMBZ5227B  |                                   |                                     | 1N5519A   | 1N747     | 1N5227A   |  |
| 3.9                   | MLL4686   | MLL4622                           | 1N4686  | 1N4622                            | MMBZ5228B  |                                   |                                     | 1N5520A   | 1N748     | 1N5228A   |  |
| 4.3                   | MLL4687   | MLL4623                           | 1N4687  | 1N4623                            | MMBZ5229B  |                                   |                                     | 1N5521A   | 1N749     | 1N5229A   |  |
| 4.7                   | MLL4688   | MLL4624                           | 1N4688  | 1N4624                            | MMBZ5230B  | BZX84C4V7                         |                                     | 1N5522A   | 1N750     | 1N5230A   |  |
| 5.1                   | MLL4689   | MLL4625                           | 1N4689  | 1N4625                            | MMBZ5231B  | BZX84C5V1                         |                                     | 1N5523A   | 1N751     | 1N5231A   |  |
| 5.6                   | MLL4690   | MLL4626                           | 1N4690  | 1N4626                            | MMBZ5232B  | BZX84C5V6                         |                                     | 1N5524A   | 1N752     | 1N5232A   |  |
| 6                     |   |                                   |   |                                   | MMBZ5233B  |                                   |                                     |   |           |           |  |
| 6.2                   | MLL4691   | MLL4627                           | 1N4691  | 1N4627                            | MMBZ5234B  | BZX84C6V2                         |                                     | 1N5525A   | 1N753     | 1N5234A   |  |
| 6.8                   | MLL4692   | MLL4099                           | 1N4692  | 1N4099                            | MMBZ5235B  | BZX84C6V8                         |                                     | 1N5526A   | 1N754     | 1N5235A   |  |
|                       |   |                                   |   |                                   |  |                                   |                                     |   | 1N957A    |           |  |
| 7.5                   | MLL4693   | MLL4100                           | 1N4693  | 1N4100                            | MMBZ5236B  | BZX84C7V5                         |                                     | 1N5527A   | 1N755     | 1N5236A   |  |
|                       |   |                                   |   |                                   |  |                                   |                                     |   | 1N958A    |           |  |
| 8.2                   | MLL4694   | MLL4101                           | 1N4694  | 1N4101                            | MMBZ5237B  | BZX84C8V2                         |                                     | 1N5228A   | 1N756     | 1N5237A   |  |
|                       |   |                                   |   |                                   |  |                                   |                                     |   | 1N959A    |           |  |
| 8.7                   | MLL4695   | MLL4102                           | 1N4695  | 1N4102                            | MMBZ5238B  |                                   |                                     |   |           | 1N5238A   |  |
| 9.1                   | MLL4696   | MLL4103                           | 1N4696  | 1N4103                            | MMBZ5239B  | BZX84C9V1                         |                                     | 1N5529A   | 1N757     | 1N5239A   |  |
|                       |   |                                   |   |                                   |  |                                   |                                     |   | 1N960A    |           |  |
| 10                    | MLL4697   | MLL4104                           | 1N4697  | 1N4104                            | MMBZ5240B  | BZX84C10                          |                                     | 1N5530A   | 1N758     | 1N5240A   |  |
|                       |   |                                   |   |                                   |  |                                   |                                     |   | 1N961A    |           |  |
| 11                    | MLL4698   | MLL4105                           | 1N4698  | 1N4105                            | MMBZ5241B  | BZX84C11                          |                                     | 1N5531A   | 1N962A    | 1N5241A   |  |
| 12                    | MLL4699   | MLL4106                           | 1N4699  | 1N4106                            | MMBZ5242B  | BZX84C12                          |                                     | 1N5532A   | 1N759     | 1N5242A   |  |
|                       |   |                                   |   |                                   |  |                                   |                                     |   | 1N963A    |           |  |
| 13                    | MLL4700   | MLL4107                           | 1N4700  | 1N4107                            | MMBZ5243B  | BZX84C13                          |                                     | 1N5533A   | 1N964A    | 1N5243A   |  |
| 14                    | MLL4701   | MLL4108                           | 1N4701  | 1N4108                            | MMBZ5244B  |                                   |                                     | 1N5334A   |           | 1N5244A   |  |
| 15                    | MLL4702   | MLL4109                           | 1N4702  | 1N4109                            | MMBZ5245B  | BZX84C15                          |                                     | 1N5335A   | 1N965A    | 1N5245A   |  |
| 16                    | MLL4703   | MLL4110                           | 1N4703  | 1N4110                            | MMBZ5246B  | BZX84C16                          |                                     | 1N5336A   | 1N966A    | 1N5246A   |  |
| 17                    | MLL4704   | MLL4111                           | 1N4704  | 1N4111                            | MMBZ5247B  |                                   |                                     | 1N5337A   |           | 1N5247A   |  |
| 18                    | MLL4705   | MLL4112                           | 1N4705  | 1N4112                            | MMBZ5248B  | BZX84C18                          |                                     | 1N5338A   | 1N967A    | 1N5248A   |  |
| 19                    | MLL4706   | MLL4113                           | 1N4706  | 1N4113                            | MMBZ5249B  |                                   |                                     | 1N5539A   |           | 1N5249A   |  |
| 20                    | MLL4707   | MLL4114                           | 1N4707  | 1N4114                            | MMBZ5250B  | BZX84C20                          |                                     | 1N5540A   | 1N968A    | 1N5250A   |  |
| 22                    | MLL4708   | MLL4115                           | 1N4708  | 1N4115                            | MMBZ5251B  | BZX84C22                          |                                     | 1N5541A   | 1N969A    | 1N5251A   |  |
| 24                    | MLL4709   | MLL4116                           | 1N4709  | 1N4116                            | MMBZ5252B  | BZX84C24                          |                                     | 1N5542A   | 1N970A    | 1N5252A   |  |
| 25                    | MLL4710   | MLL4117                           | 1N4710  | 1N4117                            | MMBZ5253B  |                                   |                                     | 1N5543A   |           | 1N5253A   |  |
| 27                    | MLL4711   | MLL4118                           | 1N4711  | 1N4118                            | MMBZ5254B  | BZX84C27                          |                                     |   | 1N971A    | 1N5254A   |  |
| 28                    | MLL4712   | MLL4119                           | 1N4712  | 1N4119                            | MMBZ5255B  |                                   |                                     | 1N5544A   |           | 1N5255A   |  |
| 30                    | MLL4713   | MLL4120                           | 1N4713  | 1N4120                            | MMBZ5256B  | BZX84C30                          |                                     | 1N5545A   | 1N972A    | 1N5256A   |  |
| 33                    | MLL4714   | MLL4121                           | 1N4714  | 1N4121                            | MMBZ5257B  | BZX84C33                          |                                     | 1N5546A   | 1N973A    | 1N5257A   |  |
| 36                    | MLL4715   | MLL4122                           | 1N4715  | 1N4122                            |  |                                   |                                     |   | 1N974A    | 1N5258A   |  |
| 39                    | MLL4716   | MLL4123                           | 1N4716  | 1N4123                            |  |                                   |                                     |   | 1N975A    | 1N5259A   |  |
| 43                    | MLL4717   | MLL4124                           | 1N4717  | 1N4124                            |  |                                   |                                     |   | 1N976A    | 1N5260A   |  |
| 47                    |   | MLL4125                           |   | 1N4125                            |  |                                   |                                     |   | 1N977A    | 1N5261A   |  |
| 51                    |   | MLL4126                           |   | 1N4126                            |  |                                   |                                     |   | 1N978A    | 1N5262A   |  |
| 56                    |   | MLL4127                           |   | 1N4127                            |  |                                   |                                     |   | 1N979A    | 1N5263A   |  |
| 60                    |   | MLL4128                           |   | 1N4128                            |  |                                   |                                     |   |           | 1N5264A   |  |
| 62                    |   | MLL4129                           |   | 1N4129                            |  |                                   |                                     |   | 1N980A    | 1N5265A   |  |
| 68                    |   | MLL4130                           |   | 1N4130                            |  |                                   |                                     |   | 1N981A    | 1N5266A   |  |
| 75                    |   | MLL4131                           |   | 1N4131                            |  |                                   |                                     |   | 1N982A    | 1N5267A   |  |
| 82                    |   | MLL4132                           |   | 1N4132                            |  |                                   |                                     |   | 1N983A    | 1N5268A   |  |
| 87                    |   | MLL4133                           |   | 1N4133                            |  |                                   |                                     |   |           | 1N5269A   |  |
| 91                    |   | MLL4134                           |   | 1N4134                            |  |                                   |                                     |   | 1N984A    | 1N5270A   |  |
| 100                   |   | MLL4135                           |   | 1N4135                            |  |                                   |                                     |   | 1N985A    | 1N5271A   |  |
| 110                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N986A    | 1N5272A   |  |
| 120                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N987A    | †1N5273A  |  |
| 130                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N988A    | †1N5274A  |  |
| 140                   |   |                                   |   |                                   |  |                                   |                                     |   |           | †1N5275A  |  |
| 150                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N989A    | †1N5276A  |  |
| 160                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N990A    | †1N5277A  |  |
| 170                   |   |                                   |   |                                   |  |                                   |                                     |   |           | †1N5278A  |  |
| 180                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N991A    | †1N5279A  |  |
| 200                   |   |                                   |   |                                   |  |                                   |                                     |   | 1N992A    | †1N5281A  |  |

□ JAN JANTX(V) available, ± 5% only.

† 1N987A–1N992A & 1N5273A–1N5281A supplied in DO-7 glass package.

\* See Notes — page 58.