

SOD-123 PLASTIC



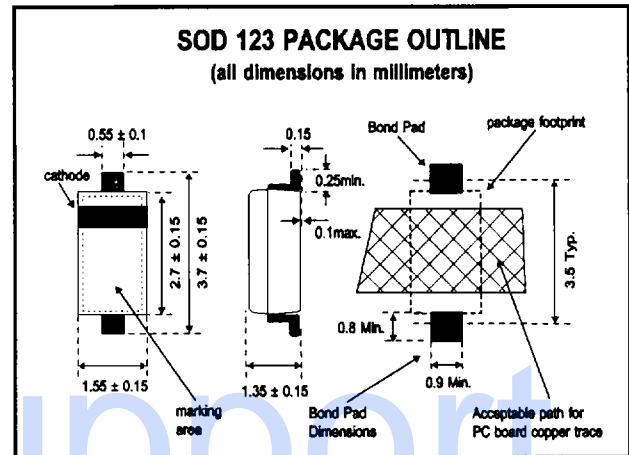
SMD Schottky Diodes

Applications

Guard ring protected schottky barrier. Low forward drop. Fast switching, high performance replacement for small signal devices. Excellent protection for MOS devices. Used in steering, biasing and coupling applications. Efficient portable system battery isolator. Able to directly replace SMA, MELF or SOD-80 packages on boards without redesign.

Features

- Six Sigma quality
- Thermally matched system
- High surge capability
- Guaranteed solderability
- Also available in MELF & DO-35 leaded glass packages.



| Absolute Maximum Ratings | Symbol | Value | Unit |
|--|-------------|------------|------------|
| Power Dissipation at $T_{PAD} = 25^\circ C$ | P_{tot} | 400 | mW |
| Average Forward Rectified Current at $T_{PAD} = 25^\circ C$ | I_{AV} | 100 | mAmps |
| Operating and Storage Temperature Range | $T_{O\&ST}$ | -65 to 150 | $^\circ C$ |
| Single cycle Surge Current ($t_{peak} = 10 \mu\text{secs.}$) | I_{FSM} | 2.0 | Amps |

Detail Specifications @ 25°C

| Type | Peak Inverse Voltage (MIN.) (PIV) Volts | Maximum Forward Voltage Drop | | Maximum Reverse Leakage Current | | Typical Capacitance @ 0V (C_O) Pf | Typical Reverse Recovery (NOTE 1) (t_{rr}) nS |
|---------|---|------------------------------|------------------------|---------------------------------|---------------|---------------------------------------|---|
| | | (V_F) @ 1mA Volts | (V_F) @ 15mA Volts | (I_R) @ V_R μA | @ V_R Volts | | |
| 1N5711W | 70 | 0.41 | 1.0 | 0.2 | 50 | 2.0 | 1.0 |
| 1N6263W | 60 | 0.41 | 1.0 | 0.2 | 50 | 2.2 | 1.0 |
| SD101AW | 60 | 0.41 | 1.0 | 0.2 | 50 | 2.0 | 1.0 |
| SD101BW | 50 | 0.40 | 0.95 | 0.2 | 40 | 2.1 | 1.0 |
| SD101CW | 40 | 0.39 | 0.90 | 0.2 | 30 | 2.2 | 1.0 |

Note 1: $I_F = I_R = 5\text{mA}$, t_{rr} @ 0.1 I_R .

For a DO-35 leaded glass package, drop the W at the end.
For a glass MELF package, also replace the first two characters with "LL".



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