



Micro Commercial Components

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SDB151 THRU SDB157

Features

- Surface Mount Package
- Low Profile Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- UL Recognized File # E165989

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| SDB151 | SDB151 | 50V | 35V | 50V |
| SDB152 | SDB152 | 100V | 70V | 100V |
| SDB153 | SDB153 | 200V | 140V | 200V |
| SDB154 | SDB154 | 400V | 280V | 400V |
| SDB155 | SDB155 | 600V | 420V | 600V |
| SDB156 | SDB156 | 800V | 560V | 800V |
| SDB157 | SDB157 | 1000V | 700V | 1000V |

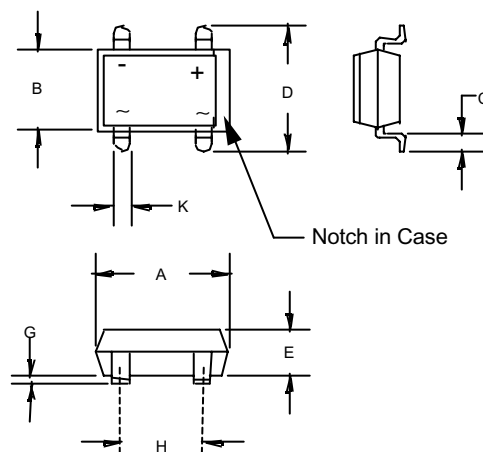
Electrical Characteristics @ 25°C Unless Otherwise Specified

| | | | |
|---|-------------|---------------------------|---|
| Average Forward Current | $I_{F(AV)}$ | 1.5 A | $T_A = 40^\circ\text{C}$ |
| Peak Forward Surge Current | I_{FSM} | 50A | 8.3ms, half sine |
| Maximum Instantaneous Forward Voltage | V_F | 1.1V | $I_{FM} = 1.5\text{A};$ $T_A = 25^\circ\text{C}$ |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I_R | 10 μA 1.0mA | $T_A = 25^\circ\text{C}$ $T_A = 100^\circ\text{C}$ |
| Typical Junction Capacitance | C_J | 25pF | Measured at 1.0MHz, $V_R=4.0\text{V}$ |

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

1.5 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

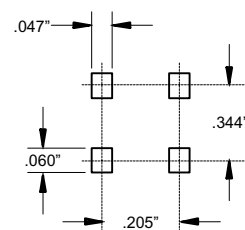
SDB-1



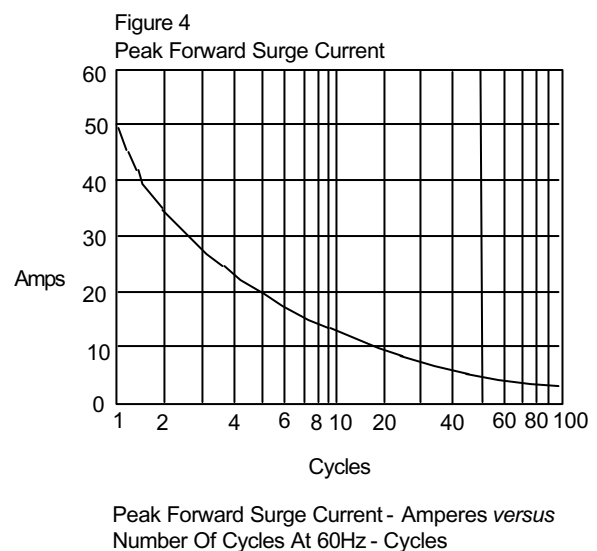
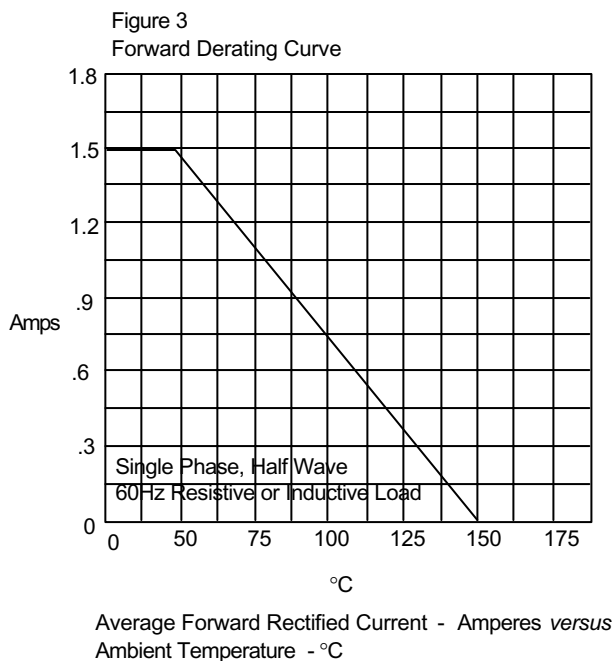
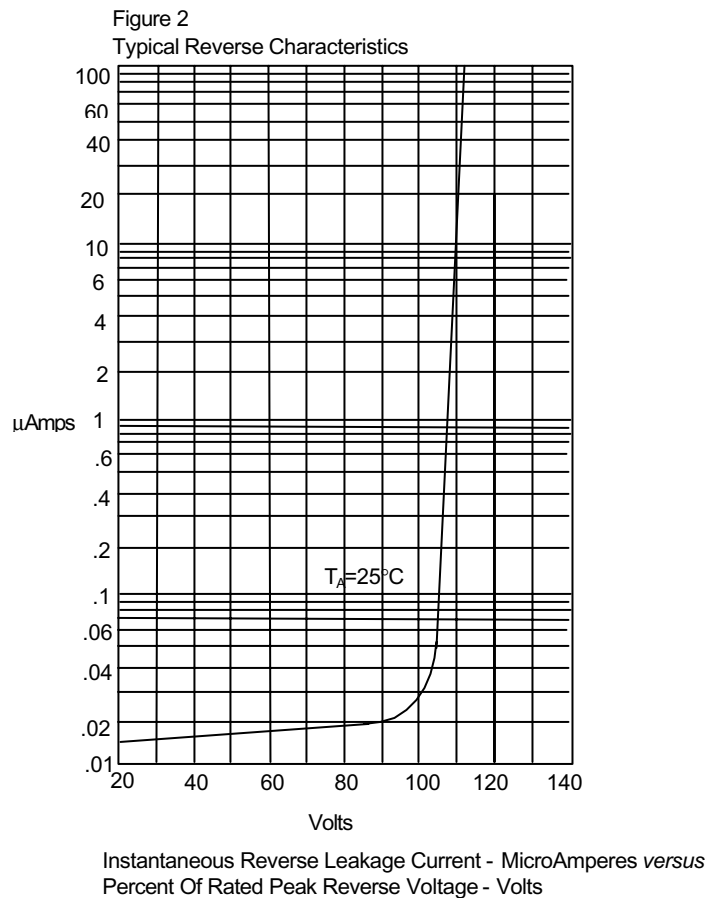
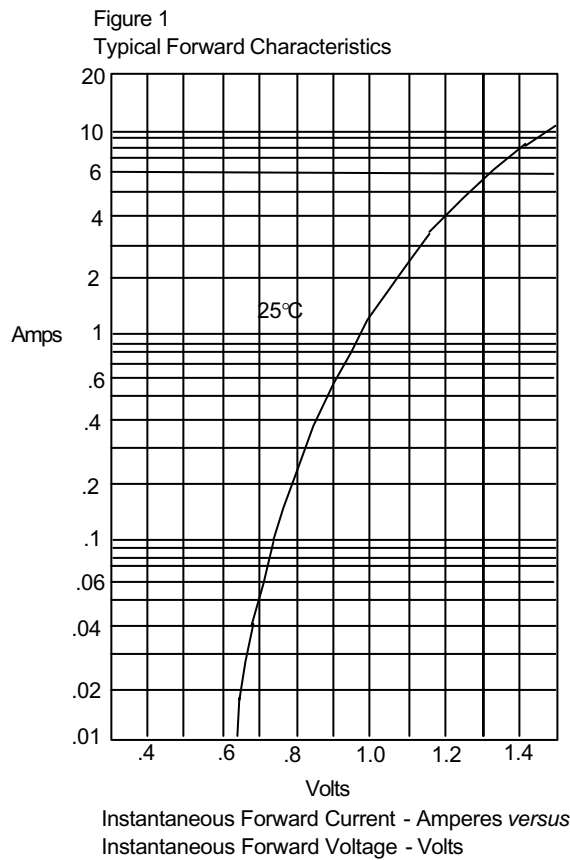
DIMENSIONS

| DIM | INCHES | | MM | | NOTE |
|-----|--------|------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | .316 | .335 | 8.05 | 8.51 | |
| B | .245 | .255 | 6.20 | 6.50 | |
| C | .040 | .060 | 1.02 | 1.50 | |
| D | .360 | .410 | 9.40 | 10.4 | |
| E | .102 | .130 | 2.60 | 3.30 | |
| G | .003 | .013 | .076 | .330 | |
| H | .195 | .205 | 5.00 | 5.20 | |
| K | .038 | .047 | 1.00 | 1.20 | |

Suggested Solder Pad Layout



SDB151 thru SDB157



Ordering Information

| Device | Packing |
|------------------|------------------------|
| (Part Number)-TP | Tape&Reel;1.5Kpcs/Reel |
| (Part Number)-BP | Bulk;50pcs/Tube |

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