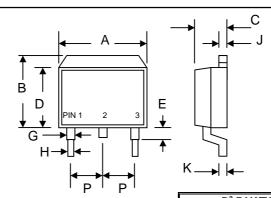


16A HIGH VOLTAGE SURFACE MOUNT DUAL SCHOTTKY BARRIER RECTIFIER

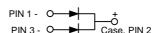
Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



Mechanical Data

- Case: D²PAK/TO-263, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.7 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



| Dim Min Max A 9.80 10.40 B 9.60 10.60 C 4.40 4.00 | | | | |
|---|--|--|--|--|
| B 9.60 10.60 | | | | |
| | | | | |
| C 4.40 4.00 | | | | |
| C 4.40 4.80 | | | | |
| D 8.50 9.10 | | | | |
| E 2.80 — | | | | |
| G 1.00 1.40 | | | | |
| H — 0.90 | | | | |
| J 1.20 1.40 | | | | |
| K 0.30 0.70 | | | | |
| P 2.35 2.75 | | | | |
| All Dimensions in mm | | | | |

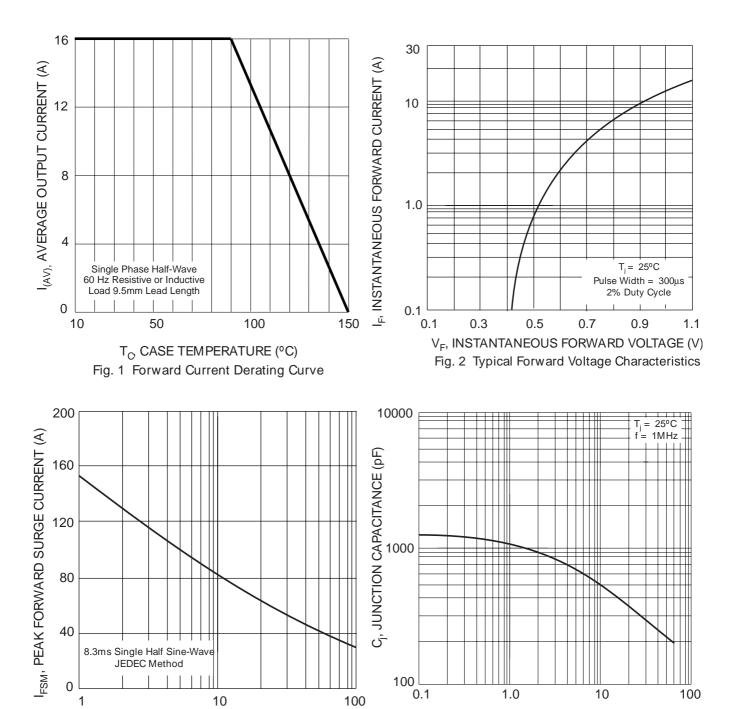
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | SB16150DC | Unit |
|---|--------------------|-------------|------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | Vrrm Vrwm Vr | 150 | V |
| RMS Reverse Voltage | VR(RMS) | 105 | V |
| Average Rectified Output Current @T _C = 90°C | Ю | 16 | А |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 150 | А |
| Forward Voltage @I _F = 8.0A | VFM | 0.92 | V |
| | IRM | 0.5 100 | mA |
| Typical Junction Capacitance (Note 1) | Cj | 700 | pF |
| Typical Thermal Resistance (Note 2) | R ⊕ JC | 2.0 | °C/W |
| Operating and Storage Temperature Range | Тj, Тsтg | -65 to +150 | °C |

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



 V_R , REVERSE VOLTAGE (V)

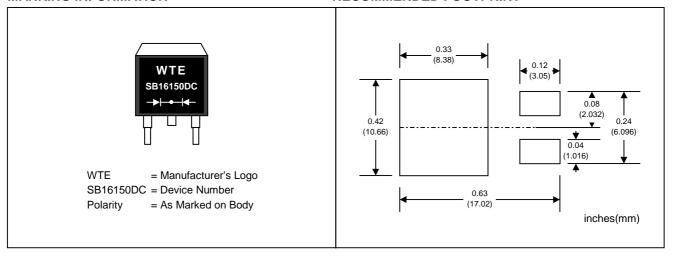
Fig. 4 Typical Junction Capacitance

NUMBER OF CYCLES AT 60 Hz

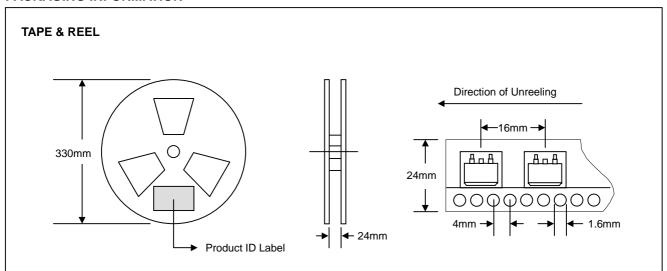
Fig. 3 Peak Forward Surge Current

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



| Reel Diameter (mm) | Quantity (PCS) | Inner Box Size L x W x H (mm) | Quantity (PCS) | Carton Size L x W x H (mm) | Quantity (PCS) | Approx. Gross Weight (KG) |
|--------------------|-------------------|----------------------------------|-------------------|-------------------------------|-------------------|---------------------------|
| 330 | 800 | 340 x 337 x 45 | 800 | 370 x 370 x 420 | 6,400 | 15.0 |

Note: 1. Paper reel, white or gray color.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

| Product No. | Package Type | Shipping Quantity |
|--------------|--------------------|-------------------|
| SB16150DC-T3 | D ² PAK | 800/Tape & Reel |

- 1. Shipping quantity given is for minimum packing quantity only. For minimum
- order quantity, please consult the Sales Department.

 To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB16150DC-T3-LF. 2.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.