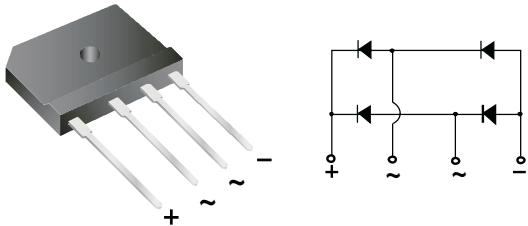


5.0 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

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| <p>IN LINE BIG</p>  | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage 400 V to 1000 V</td> <td style="text-align: center;">Current 5.0 A</td> </tr> <tr> <td colspan="2"> FEATURES <ul style="list-style-type: none"> UL recognition file number E320541 Ideal for printed circuit board High case dielectric strength of 2500 Vrms High surge current capability Solder dip 260°C, 10s Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC </td> </tr> <tr> <td colspan="2"> MECHANICAL DATA <ul style="list-style-type: none"> Case: IN LINE BIG. Epoxy meets UL 94V-0 flammability rating. Polarity: As marked on body Mounting Torque: 5.5cm-kg (5 in.- lbs.) Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test </td> </tr> <tr> <td colspan="2"> TYPICAL APPLICATIONS Used in ac-to-dc bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications. </td> </tr> </table> | Voltage 400 V to 1000 V | Current 5.0 A | FEATURES <ul style="list-style-type: none"> UL recognition file number E320541 Ideal for printed circuit board High case dielectric strength of 2500 Vrms High surge current capability Solder dip 260°C, 10s Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC | | MECHANICAL DATA <ul style="list-style-type: none"> Case: IN LINE BIG. Epoxy meets UL 94V-0 flammability rating. Polarity: As marked on body Mounting Torque: 5.5cm-kg (5 in.- lbs.) Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test | | TYPICAL APPLICATIONS Used in ac-to-dc bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications. | |
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Maximum Ratings and Electrical Characteristics at 25 °C

| | | D5XB40 | D5XB60 | D5XB80 | D5XB100 |
|---------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------|--------|---------|
| Marking Code | | D5XB40 | D5XB60 | D5XB80 | D5XB100 |
| V_{RRM} | Peak recurrent reverse voltage (V) | 400 | 600 | 800 | 1000 |
| V_{RMS} | Maximum RMS Voltage (V) | 280 | 420 | 560 | 700 |
| $I_{F(AV)}$ | Max. Average forward current | 5.0 A at $T_c: 100\text{ }^\circ\text{C}$ (Note 1) 2.8 A at $25\text{ }^\circ\text{C}$ (Note 2) | | | |
| I_{FSM} | Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (Jedec Method) | 180 A | | | |
| V_{DIS} | Dielectric strength (terminals to case, AC 1 min.) | 2500 V | | | |
| I^2t | I^2t value for fusing ($t = 10\text{ ms}$) | 120 A ² sec | | | |
| T_j | Operating temperature range | -40 to +150 °C | | | |
| T_{stg} | Storage temperature range | -40 to +150 °C | | | |

Electrical Characteristics at Tamb = 25 °C

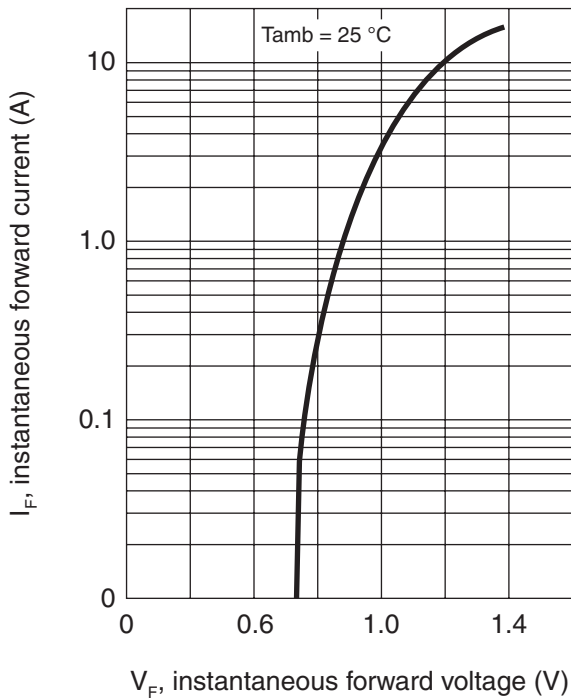
| | | |
|---------------|-------------------------------------------------------------|-------------------|
| V_F | Max. forward voltage drop per diode at $I_F = 3.0\text{ A}$ | 1.00 V |
| I_R | Max. instantaneous reverse current at V_{RRM} | 5 μA |
| $R_{th(j-c)}$ | Typical Thermal Resistance Junction-case | 3.4 °C/W (Note 1) |
| $R_{th(j-a)}$ | Typical Thermal Resistance Junction-Ambient | 22 °C/W (Note 2) |

Notes: 1. Unit case mounted on aluminum plate heatsink
 2. Units mounted on P.C.B. without heatsink

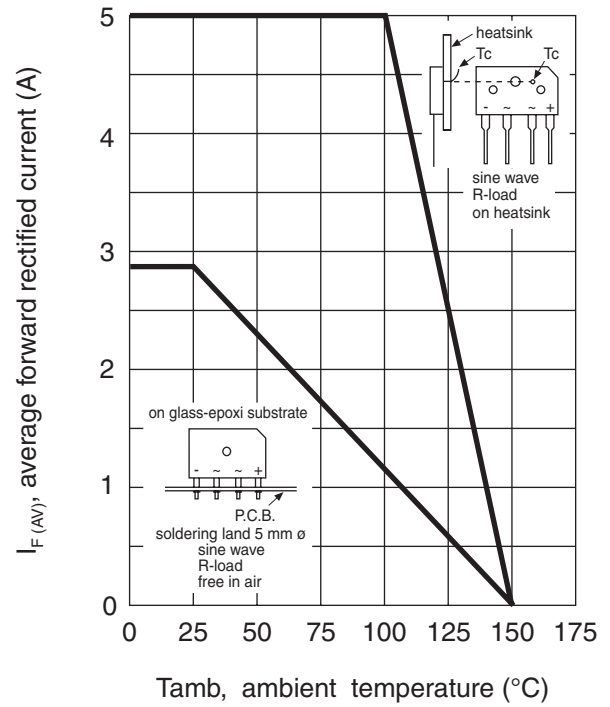
5.0 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)

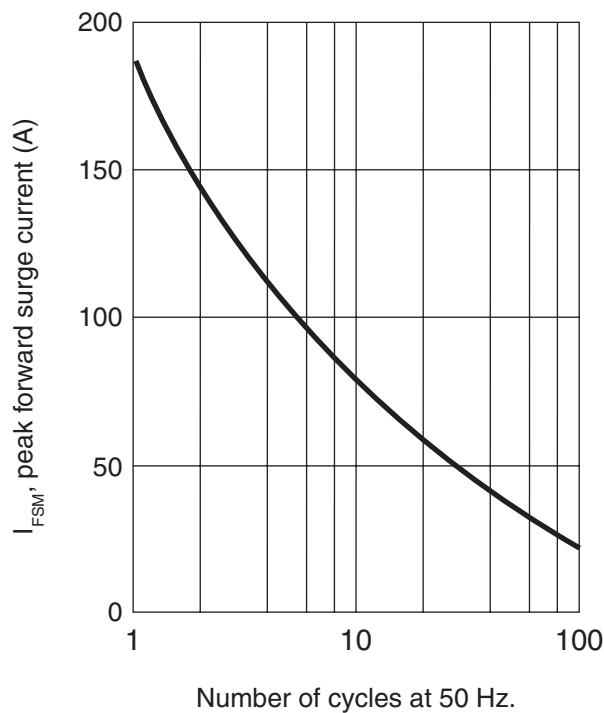
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



5.0 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

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