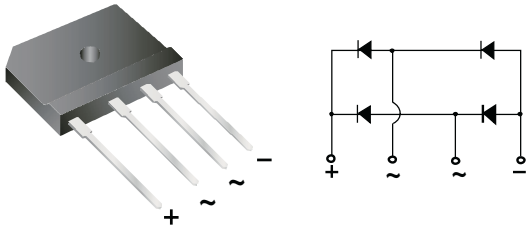


5.0 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

<p>IN LINE BIG</p> 	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage 200 V to 600 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 200 V to 600 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

Marking Code		D5.1XB20	D5.1XB30	D5.1XB60
V_{RRM}	Peak recurrent reverse voltage (V)	200	300	600
V_{RMS}	Maximum RMS Voltage (V)	140	210	420
$I_{F(AV)}$	Max. Average forward current	5.0 A at $T_c: 100\text{ }^\circ\text{C}$ (Note 1) 3.0 A at $25\text{ }^\circ\text{C}$ (Note 2)		
I_{FSM}	8.3 ms. Peak Forward Surge Current (Jedec Method)	180 A		
V_{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2500 V		
I^2t	I^2t value for fusing ($t < 8.3\text{ ms}$)	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

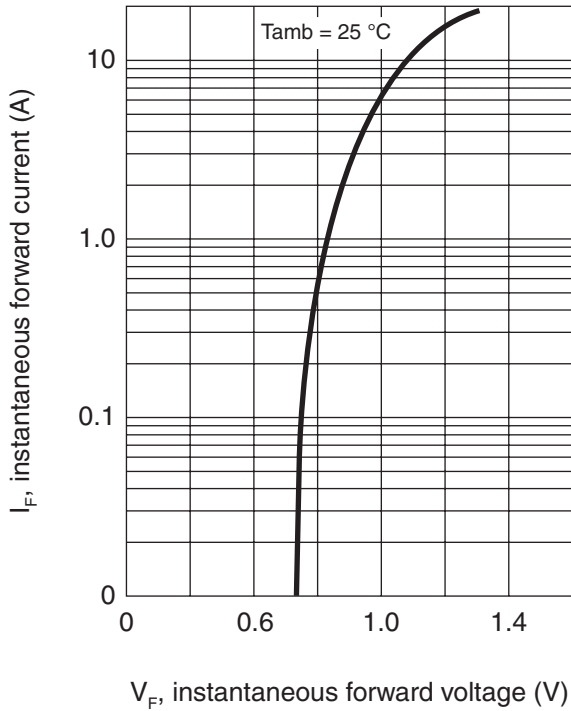
V_F	Max. forward voltage drop per diode at $I_F = 4.0\text{ A}$ $I_F = 8.0\text{ A}$	1.00 V 1.10 V
I_R	Max. instantaneous reverse current at V_{RRM}	5 μA
$R_{th(j-c)}$ $R_{th(j-a)}$	Typical Thermal Resistance Junction-case Junction-Ambient	3.4 °C/W (Note 1) 22 °C/W (Note 2)

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

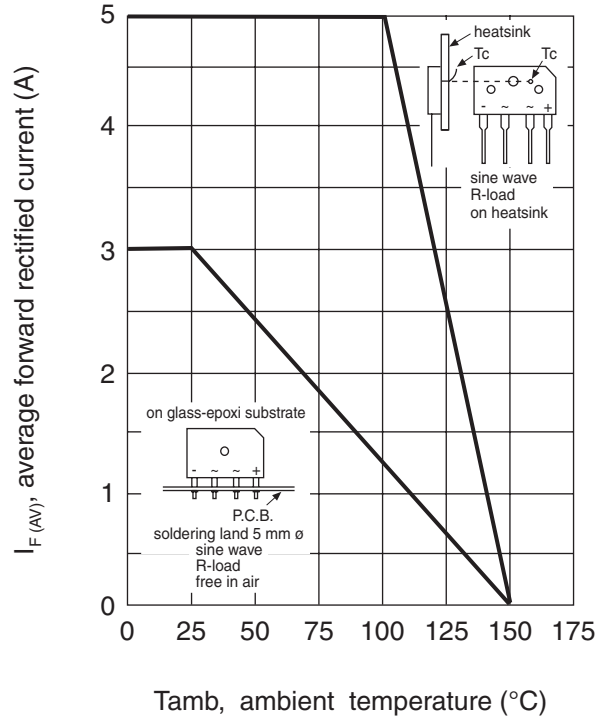
5.0 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

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

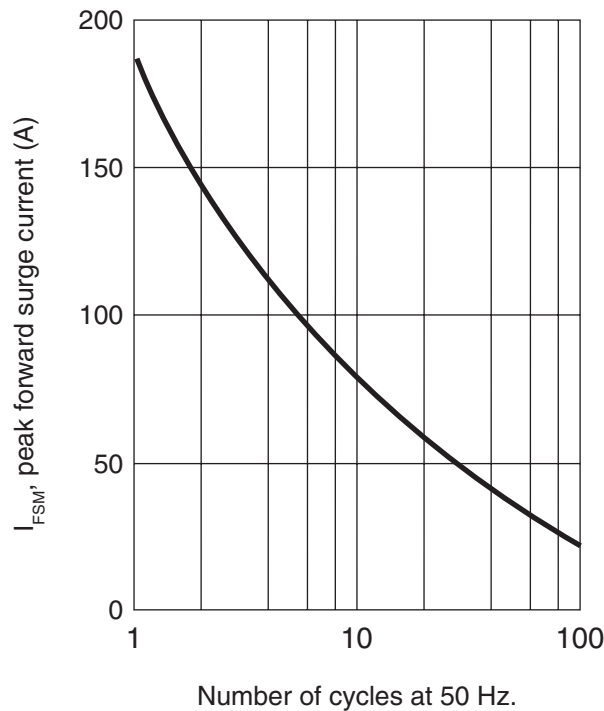
TYPICAL FORWARD CHARACTERISTIC



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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