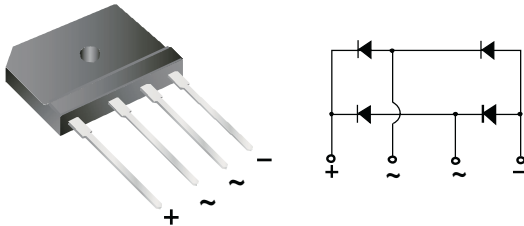


15 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

<p style="text-align: center;">IN LINE BIG</p> 	<p style="text-align: center;">Voltage 400 V to 1000 V</p> <p style="text-align: center;">Current 15 A</p>
	<p>FEATURES</p> <ul style="list-style-type: none"> • UL recognition file number E320541 • Ideal for printed circuit board • High case dielectric strength of 2000 Vrms • High surge current capability • Solder dip 260°C, 10s • Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC <p>MECHANICAL DATA</p> <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 <p>TYPICAL APPLICATIONS</p> <p>Used in ac-to-dc bridge full wave rectification for monitor, TV, printer, switching mode power supply, adapter, audio equipment, and home appliances applications.</p>

Maximum Ratings and Electrical Characteristics at 25 °C

		D15XB40	D15XB60	D15XB80	D15XB100
Marking Code		D15XB40	D15XB60	D15XB80	D15XB100
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	15 A at T_c : 107 °C (Note 1) 3.5 A at 25 °C (Note 2)			
I_{FSM}	Peak forward surge current 10ms single half sine-wave superimposed on rated load (Jedec Method)	200 A			
V_{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2000 V			
I^2t	Current squared time (rating for fusing) (1ms.<t<10ms. $T_c = 25^\circ C$)	110 A ² sec			
T_j	Operating temperature range	-55 to +150 °C			
T_{stg}	Storage temperature range	-55 to +150 °C			

Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop per diode at $I_F = 7.5 A$ $I_F = 15 A$	1.00 V 1.10 V
I_R	Max. instantaneous reverse current at V_{RRM}	10 μA
$R_{th(j-c)}$	Junction-case	1.5 °C/W (Note 1)
$R_{th(j-a)}$	Typical Thermal Resistance Junction-Ambient	22 °C/W (Note 2)

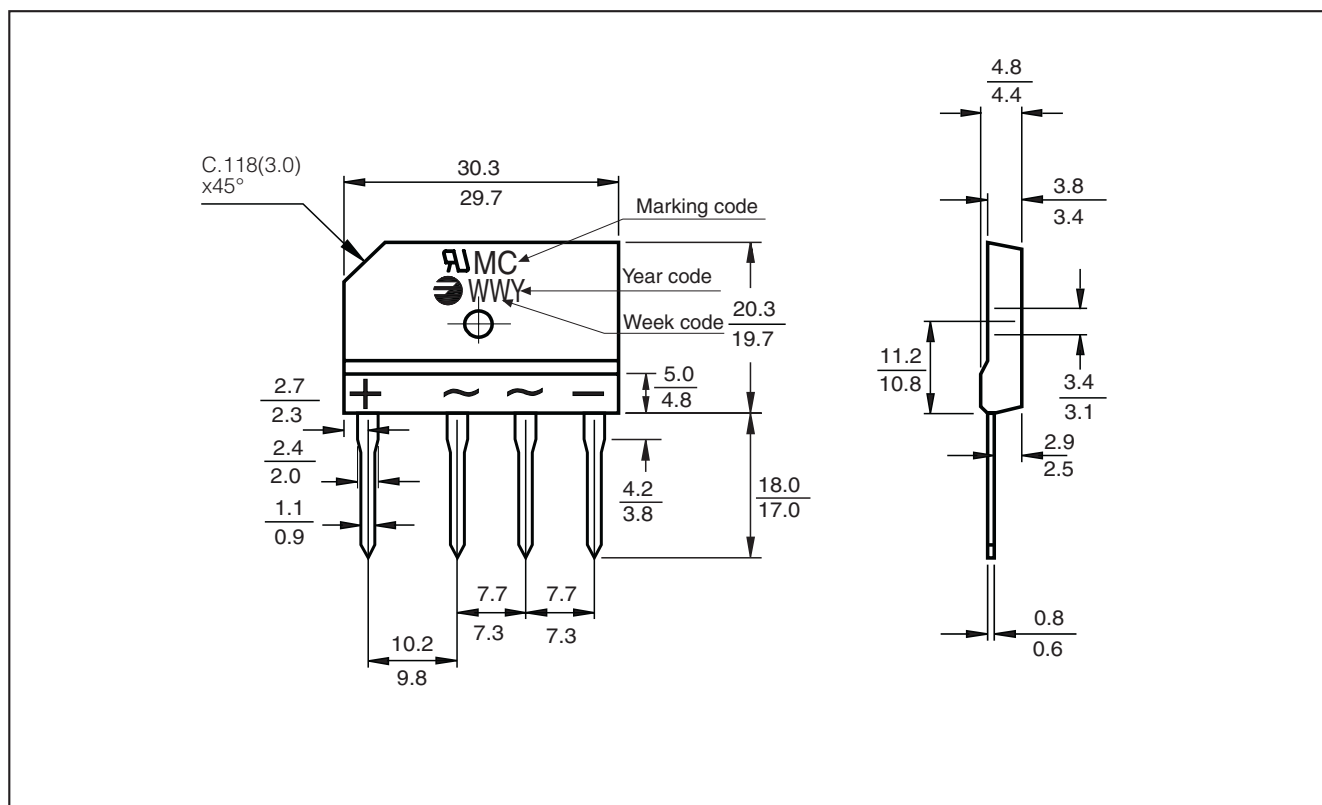
Notes: 1. Unit case mounted on aluminum plate heatsink
2. Units mounted on P.C.B. without heatsink

15 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
D15XB60 TY	TY	PAPER TRAY	40	7

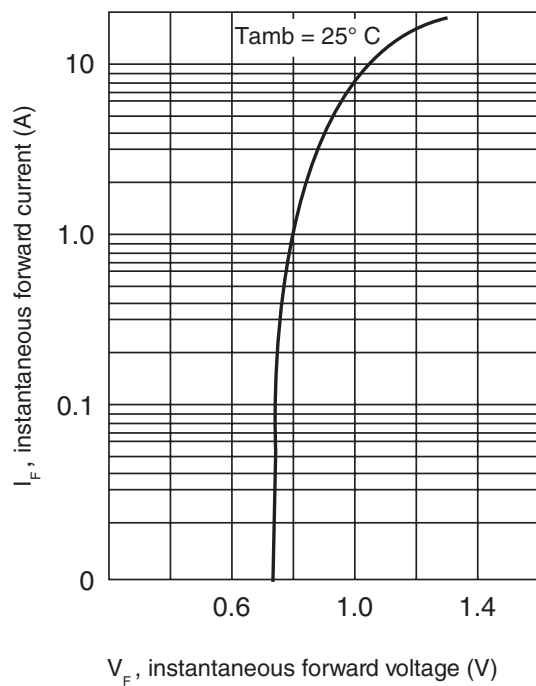
Package Outline Dimensions: (mm) IN LINE BIG



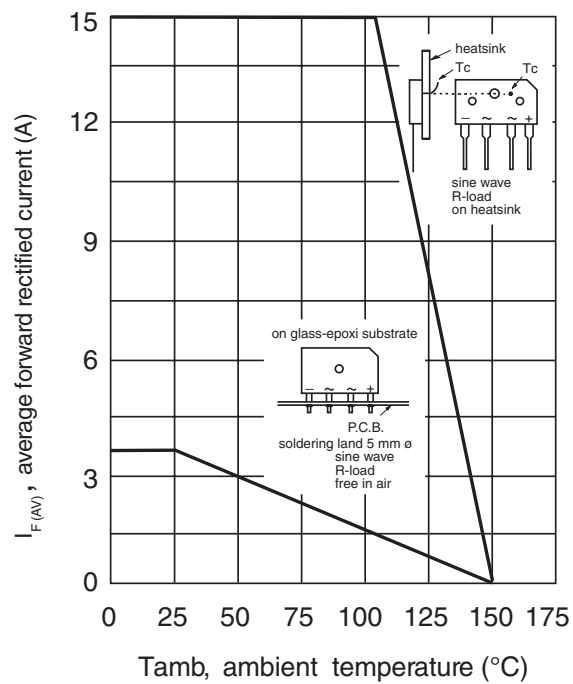
15 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

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

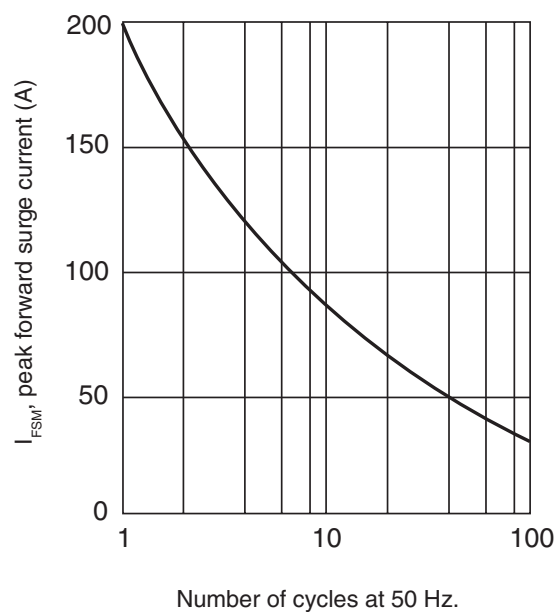
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



15 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

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