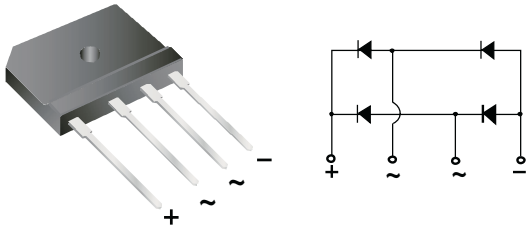




25 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

IN LINE BIG 	Voltage 400 V to 1000 V	Current 25 A	
	FEATURES <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 		  RoHS COMPLIANT
	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.		

Maximum Ratings and Electrical Characteristics at 25 °C

		D25XB40	D25XB60	D25XB80	D25XB100
Marking Code		D25XB40	D25XB60	D25XB80	D25XB100
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	25 A at T _c : 100 °C (Note 1) 3.2 A at 25 °C (Note 2)			
I _{FSM}	Peak forward surge current 10ms single half sine-wave superimposed on rated load (Jedec Method)	300 A			
V _{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2000 V			
i ² t	Current squared time (rating for fusing) (1ms.<t<10ms. T _c = 25° C)	373 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 = 25 A	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	1.0 °C/W (Note 1) 22 °C/W (Note 2)

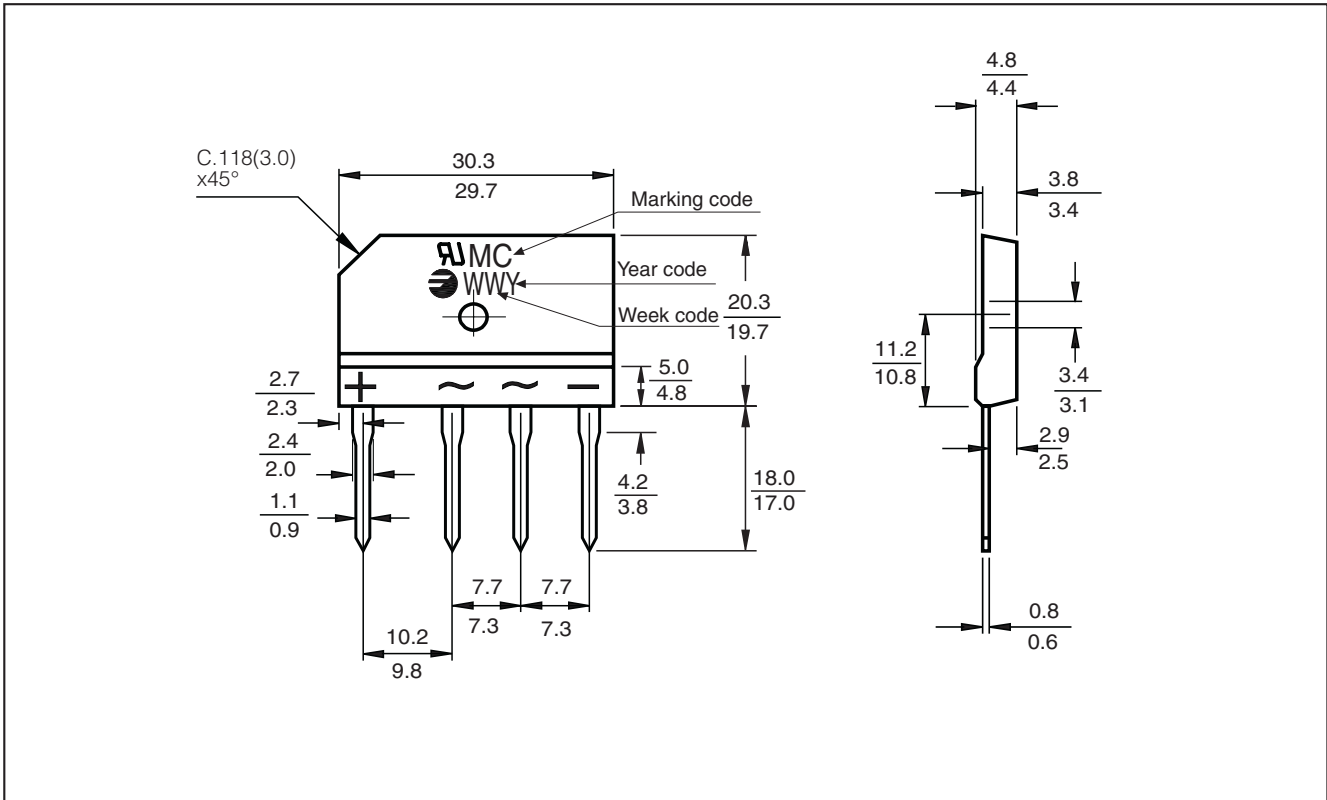
Notes: 1. Unit case mounted on aluminum plate heatsink
2. Units mounted on P.C.B. without heatsink

25 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
D25XB60 TU	TU	TUBE	15	6.50

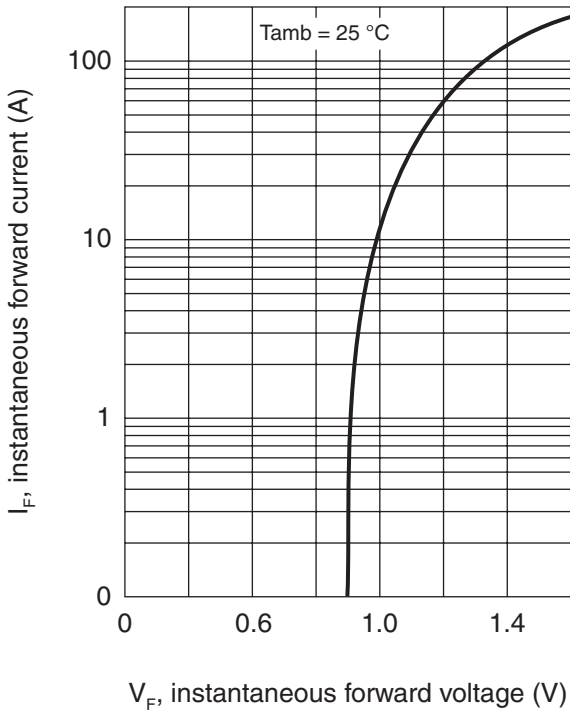
Package Outline Dimensions: (mm) IN LINE BIG



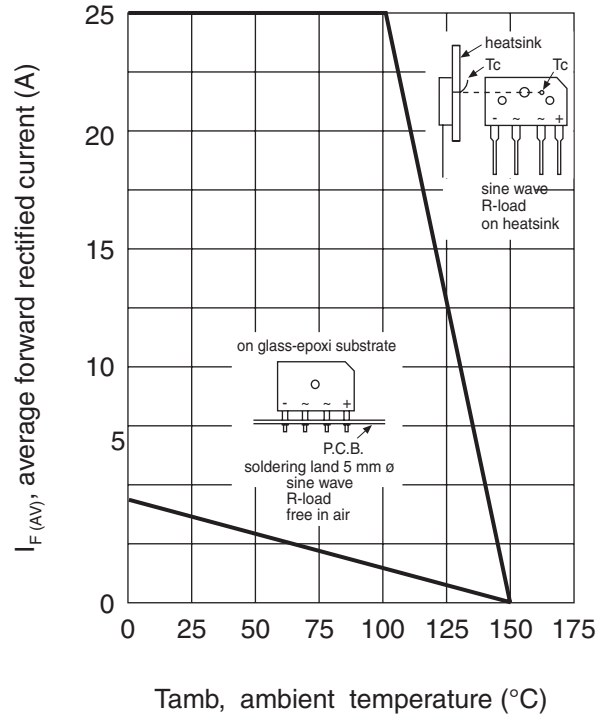
25 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

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

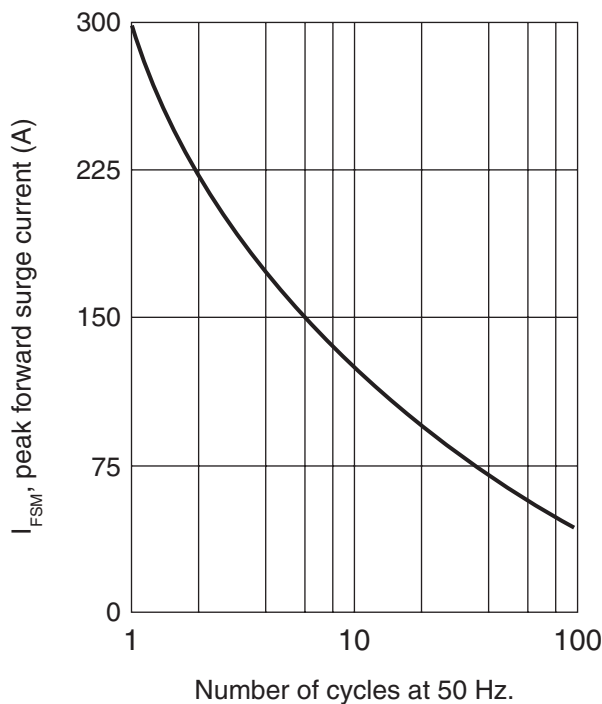
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



25 Amp. Glass Passivated Single Phase In Line Bridge Rectifier**Revision History**

Date	Revision	Description of Changes
15-May-2012	0	Original Data Sheet
15-Jun-2015	1	Change packing specification
21-Apr-2016	2	Change Ordering information
28-Apr-2016	3	Change electrical characteristics

Disclaimer

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