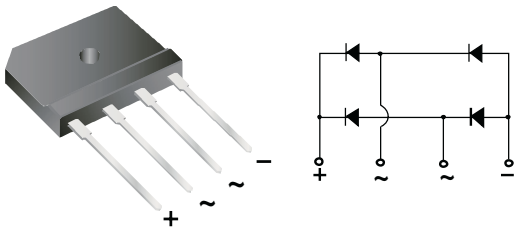
10 Amp. Glass Passivated Single Phase In Line Bridge Rectifier

IN LINE MEDIUM



Voltage	Current
400 V to 1000 V	10 A

FEATURES

- UL recognition file number E320541
- Ideal for printed circuit board
- High case dielectric strength of 2000 Vrms
- High surge current capability
- Solder dip 260ºC, 10s
- Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC

Pb

e3

RoHS COMPLIANT

MECHANICAL DATA

- **Case:** IN LINE MEDIUM. 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 ºC

		D10SB40	D10SB60	D10SB80	D10SB100
Marking Code		**D10SB40**	**D10SB60**	**D10SB80**	**D10SB100**
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	10 A at Tc: 100 °C (Note 1) 3.0 A at 25 °C (Note 2)			
I_{FSM}	Peak forward surge current 10ms single half sine-wave superimposed on rated load (Jedec Method)	150 A			
V_{DIS}	Dielectric strength (terminals to case, AC 1 min.)	2000 V			
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 = 5 A I_F = 10 A	1.00 V 1.10 V
I_R	Max. instantaneous reverse current at V_{RRM}	5 µA
$R_{th\ (j-c)}$	Typical Thermal Resistance Junction-case	1.4 °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

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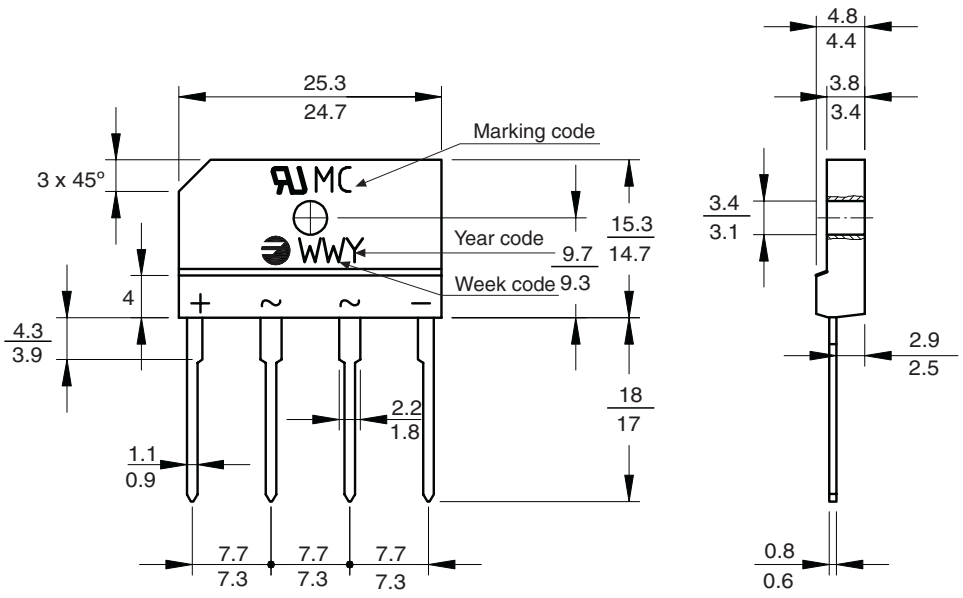
Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
D10SB60 TY	TY	PAPER TRAY	20	4.3

Package Outline Dimensions: (mm) IN LINE MEDIUM



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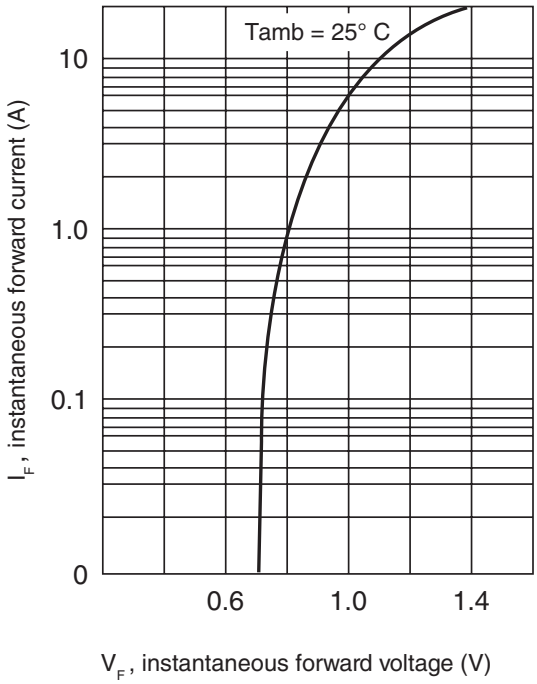
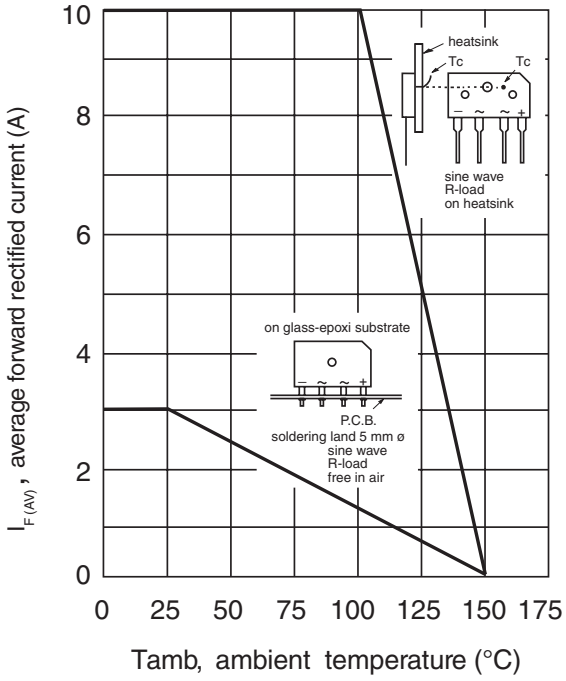
Ratings and Characteristics (Ta 25 ºC unless otherwise noted)

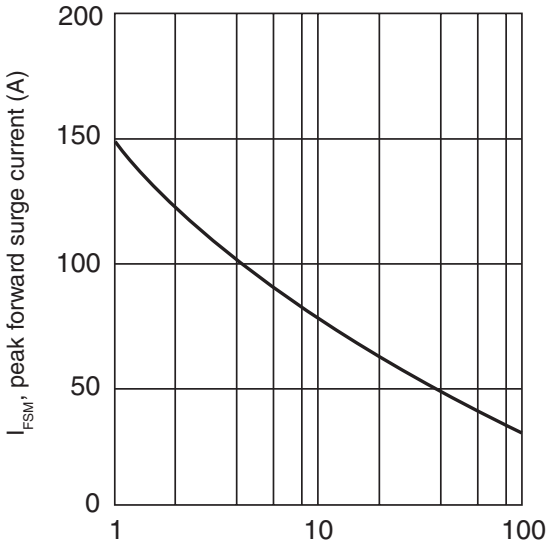
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



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