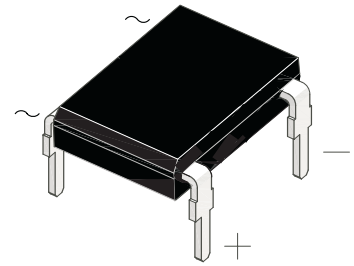
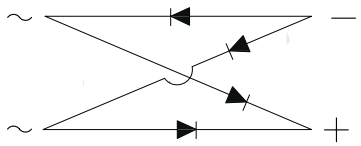
1.0 Amp. Miniature Glass Passivated Single-Phase Bridge Rectifier

DFM





Voltage
600 V to 1000 V

Current
1.0 Amp. at 40ºC

HYPERECTIFIER®

FEATURES

- Ideal for automated insertion
- High forward surge current capability
- Ideal for printed circuit boards
- Solder dip 260ºC, 10s
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC
- Meets MSL level 1, per J-STD-020, LF maximum peak of 250º C

Pb e3 **RoHS** COMPLIANT

MECHANICAL DATA

- **Case:** DFM

Epoxy meets UL 94V-0 flammability rating.

- **Polarity:** As marked on body.
- **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 SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications..

Maximun Ratings and Electrical Characteristics at 25°C

			DF06MA	DF08MA	DF10MA
	Marking code		DF06MA	DF08MA	DF10MA
V_{RRM}	Peak recurrent reverse voltage (V)		600	800	1000
V_{RMS}	Maximum RMS voltage (V)		420	560	700
$I_{F\ (AV)}$	Forward current at Tamb = 40 °C	R Load	1.0 A		
		C Load	0.8 A		
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)		30 A		
I^2t	I^2t value for fusing (t = 8.3 ms)		4.5 A^2sec		
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 element at I_F = 1 A		1.1 V
I_R	Max. reverse current per	and T = 25 °C	10 µA
	element V_{RRM} d.c.	and T = 125 °C	500 µA
R_{thj-a}	Maximum thermal resistance junction to ambient (*)		40 °C/W

(*) NOTE: Thermal Resistance from junction to ambient PCB mounted P.C. Board with 12 mm. sq. Copper

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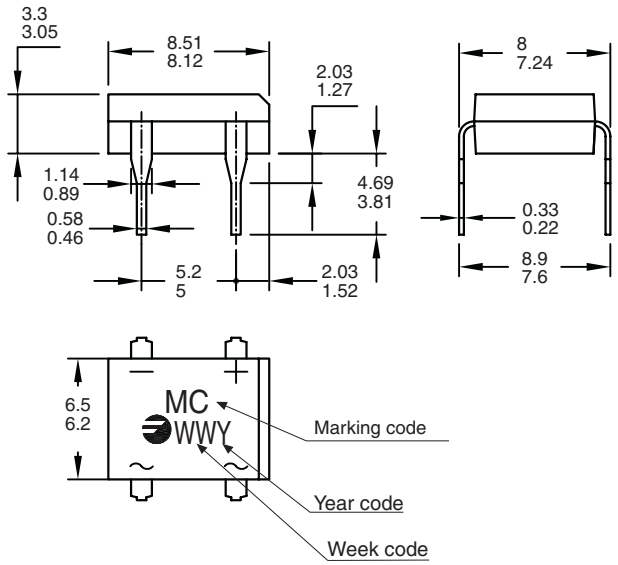
Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
DF06MA TU	TU	TUBE	5,000	0.403

Package Outline Dimensions: (mm) DFM



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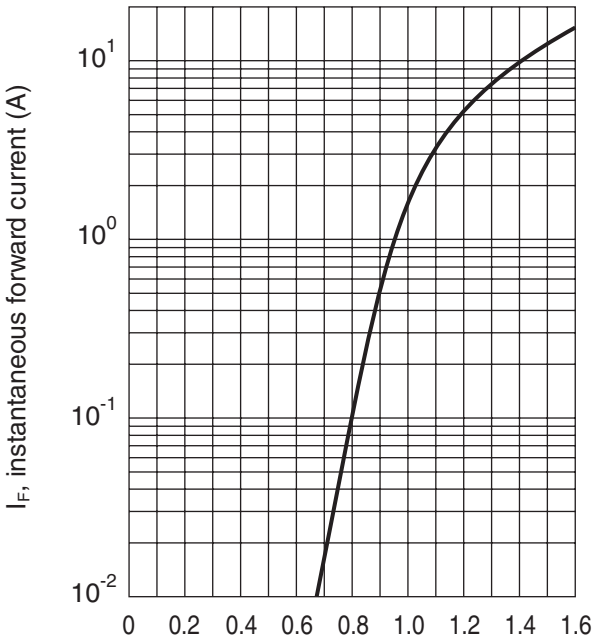
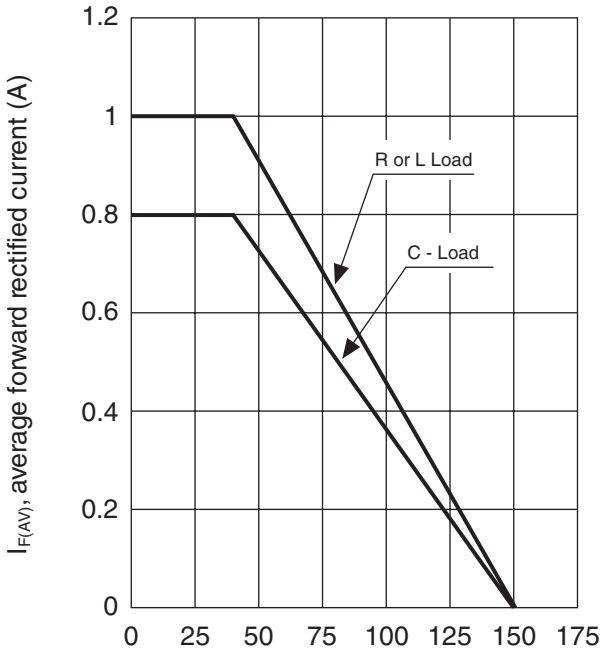
Ratings and Characteristics (Ta 25 ºC unless otherwise noted)

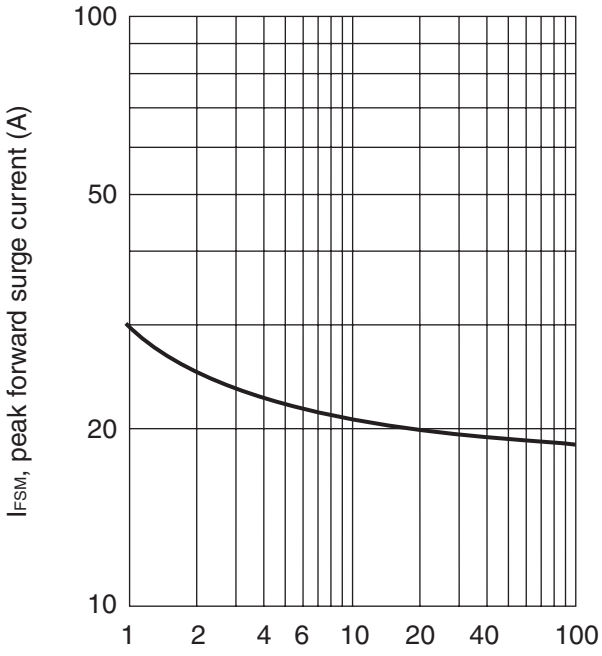
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT



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