

FB4M~FB10M

Surface Mount Flat Bridge Rectifier

Reverse Voltage - 400 to 1000 V

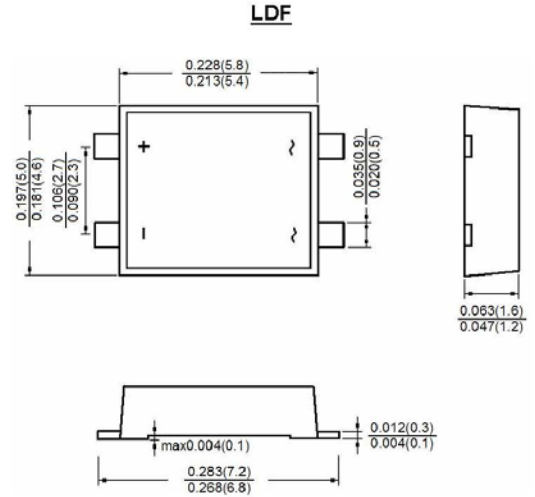
Forward Current - 1 A

Features

- Ideal for printed circuit board
- Glass passivated chip
- Reliable low cost construction utilizing molded plastic technique
- Small size, simple installation

Mechanical Data

- **Terminal:** Plated leads solderable per MIL-STD 750, method 2026
- **Case:** UL-94 Class V-0 recognized flame retardant epoxy
- **Polarity:** Polarity symbol marked on body

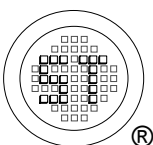


Dimensions in inches and (millimeters)

Maximum Ratings and Electrical characteristics

Single-phase, half-wave, 60 Hz, resistive or inductive load rating at 25 °C, unless otherwise stated

Parameter	Symbols	FB4M	FB6M	FB8M	FB10M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	270	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	400	600	800	1000	V
Maximum Average Forward Rectified Current on Glass-epoxy P.C.B.	$I_{F(AV)}$	1				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	30				A
Maximum Instantaneous Forward Voltage at Forward Current 0.4 A	V_F	0.98				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5 100				μA
Typical Thermal Resistance Junction to Lead On Glass-epoxy P.C.B.	$R_{\theta JL}$ $R_{\theta JA}$	42 88				$^{\circ}C/W$
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150				$^{\circ}C$



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FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

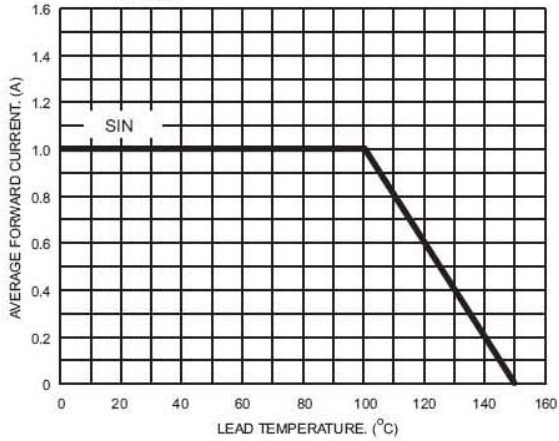


FIG.2- TYPICAL FORWARD CHARACTERISTICS

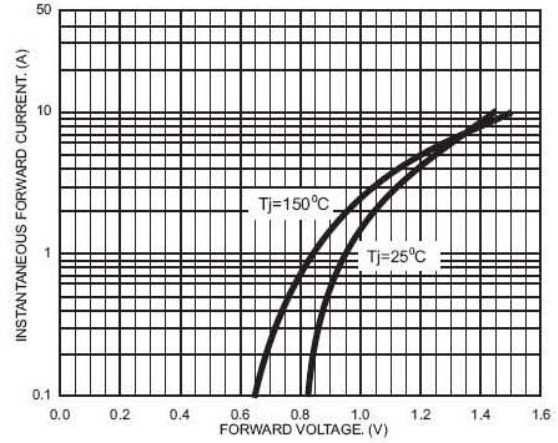


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

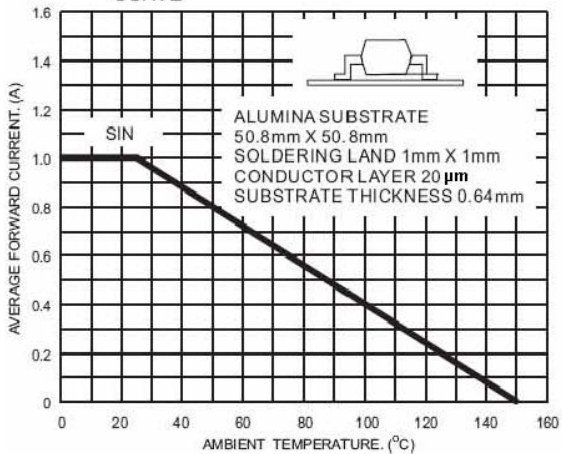


FIG.4- FORWARD POWER DISSIPATION

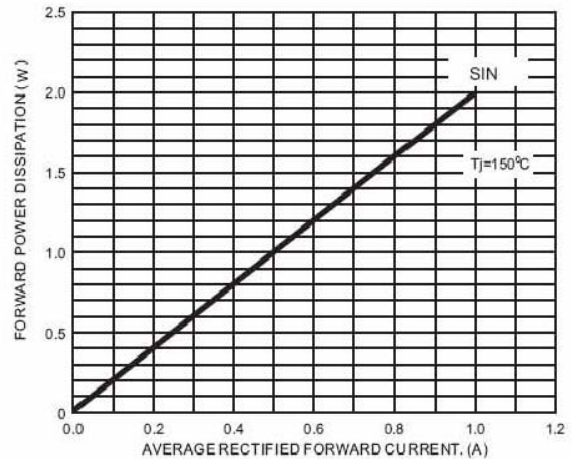


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

