FB4S~FB10S

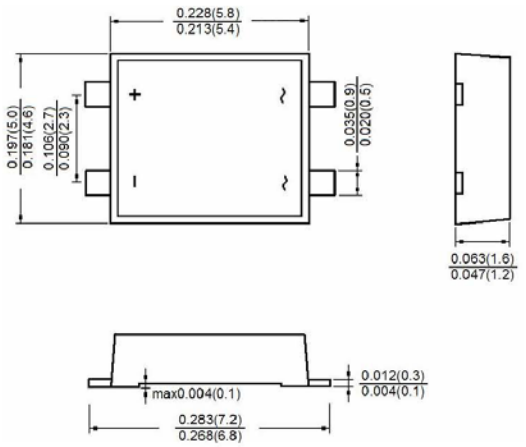
Surface Mount Flat Bridge Rectifier

Reverse Voltage - 400 to 1000 V
Forward Current - 0.8 A

Features

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

LDF



Dimensions in inches and (millimeters)

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

Maximum Ratings and Electrical characteristics

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

Parameter	Symbols	FB4S	FB6S	FB8S	FB10S	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-expoxy P.C.B.	$I_{F(AV)}$	0.8				A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	25				A
Maximum Instantaneous Forward Voltage at Forward Current 0.4 A	V_F	0.98				V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a = 110 °C	I_R	5 100				μA
Typical Thermal Resistance Junction to Lead On Glass-expoxy P.C.B.	$R_{\theta JL}$ $R_{\theta JA}$	42 88				°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150				°C

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

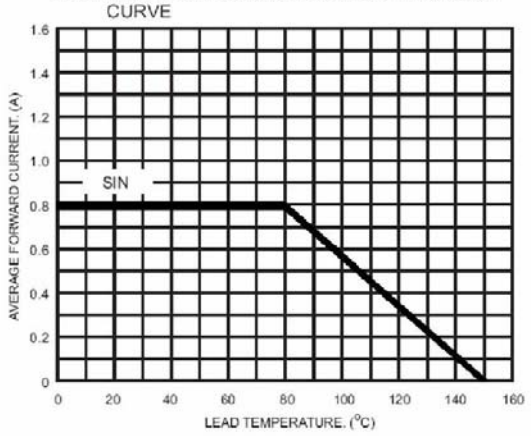


FIG.2- TYPICAL FORWARD CHARACTERISTICS

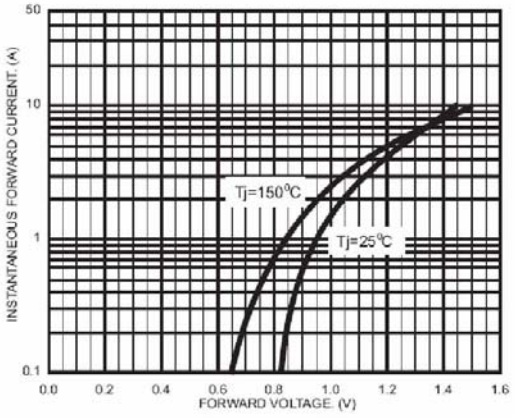


FIG.3- MAXIMUM FORWARD CURRENT DERATING CURVE

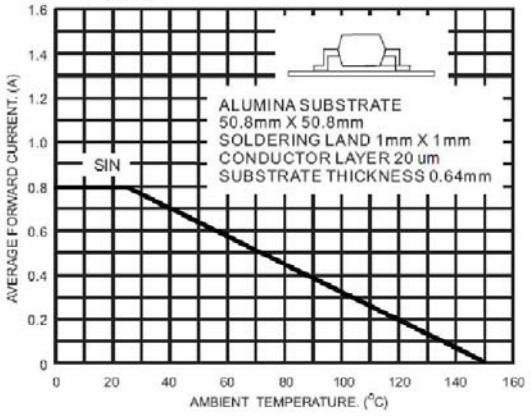


FIG.4- FORWARD POWER DISSIPATION

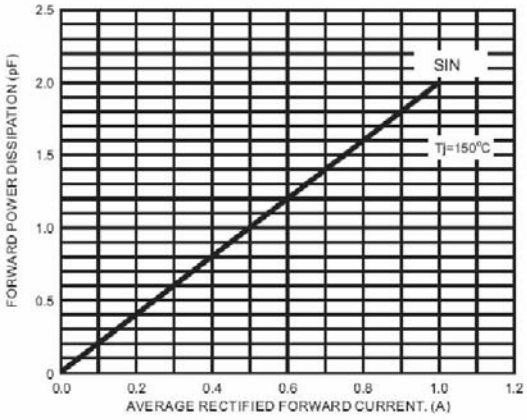


FIG.5- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT