

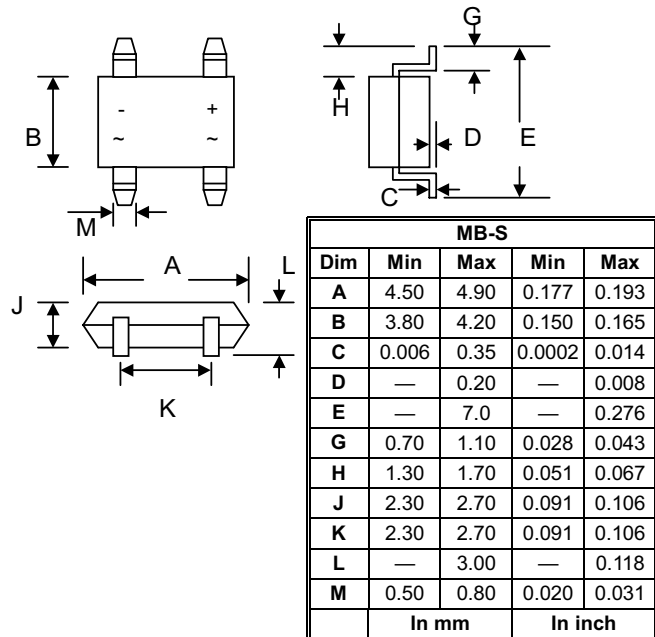
Data Sheet 1327, Rev. B

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability Classification 94V-O
- UL Recognized File # E223064

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.22 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.

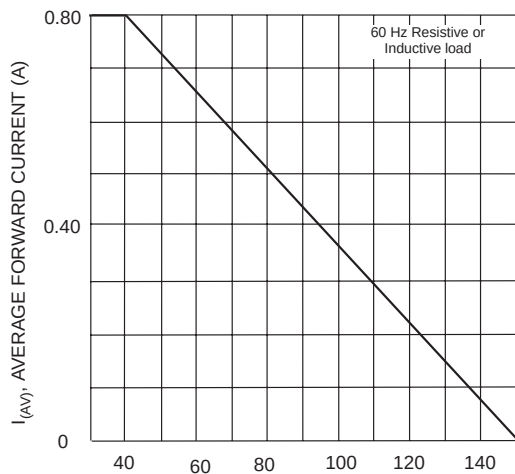
For capacitive load, derate current by 20%.

Characteristic	Symbol	MB1S	MB2S	MB4S	MB6S	MB8S	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	100	200	400	600	800	V
Working Peak Reverse Voltage	V _{RWM}						
DC Blocking Voltage	V _R						
RMS Reverse Voltage	V _{R(RMS)}	70	140	280	420	560	V
Average Rectified Output Current @T _A = 40°C	I _O	0.8					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30					A
I ² t Rating for Fusing (t < 8.35ms)	I ² t	10					A ² s
Forward Voltage per element @I _F = 0.5A	V _{FM}	1.0					V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _{RM}	5.0 500					μA
Typical Junction Capacitance (per leg) (Note 1)	C _j	25					pF
Typical Thermal Resistance (per leg) (Note 2)	R _{θJA}	85					K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +150					°C

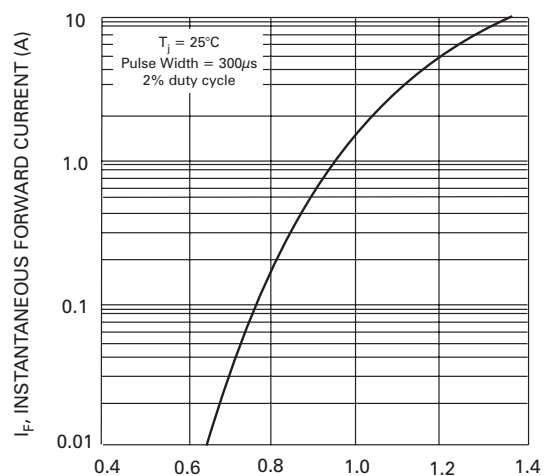
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to ambient mounted on PC board with 13mm² copper pads.

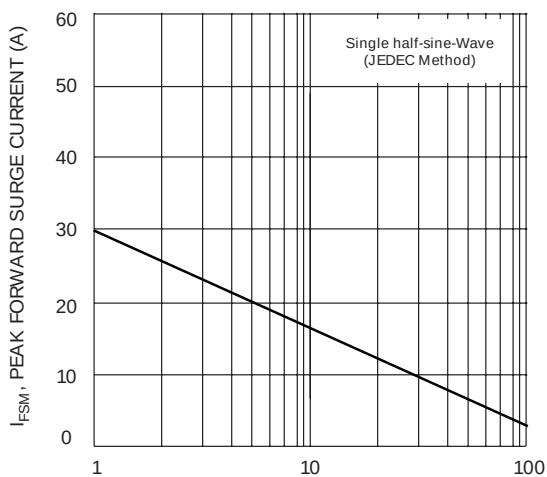
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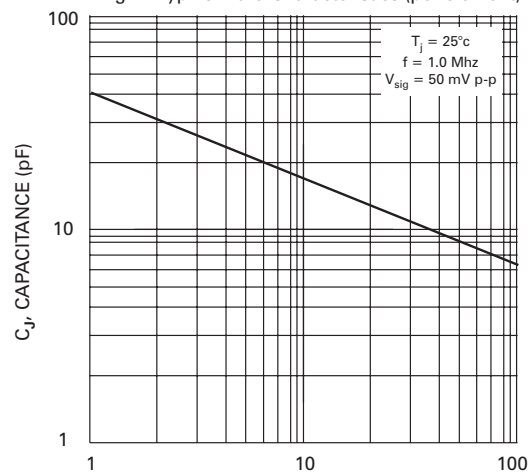
T_A , AMBIENT TEMPERATURE ($^{\circ}$ C)
Fig. 1 Output Current Derating Curve



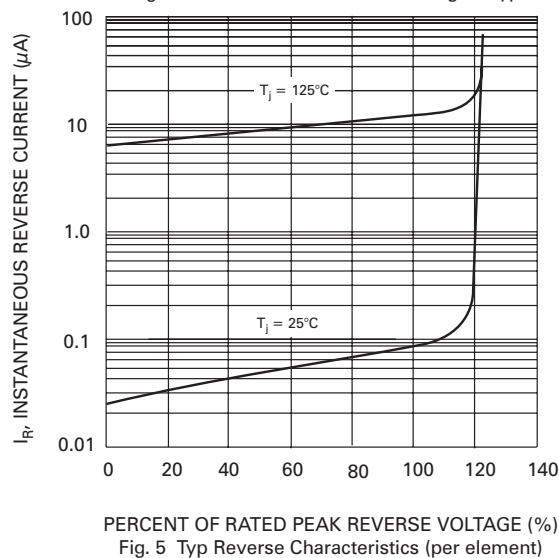
V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typ Forward Characteristics (per element)



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_R , REVERSE VOLTAGE (V)
Fig. 4 Typ Junction Capacitance (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 5 Typ Reverse Characteristics (per element)