Suntan_® Su_®

±0.05

4.80 ±

MB1F THRU MB10F

SURFACE MOUNT FAST SWITCHING RECTIFIER **REVERSE VOLTAGE 50 to 1000 Volts** FORWARD CURRENT 1.0 Ampere

FEATURES

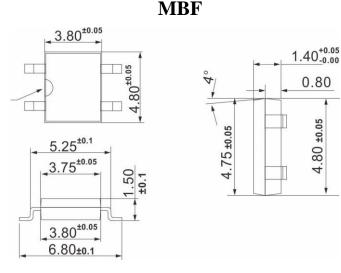
◆Glass passivated chip junction.

- ◆ Ideal for surface mounted applications.
- ◆Low leakage.
- ♦ High forward surge current capability.
- ♦ High temperature soldering guaranteed:

 260° C/10 seconds at terminals.

Mechanical Data

- ◆Case: Molded plastic body.
- ◆Epoxy: UL94V-0 rate flame retardant.
- Polarity: Molded on body.
- ◆Lead: Plated terminals solderable per MIL-STD-202E method 208C.
- ♦ Weight: 0.003 ounce, 0.1 gram.



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MB1F	MB2F	MB3F	MB4F	MB6F	MB8F	MB10F	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current, 0.06" (1.5mm) lead length at $T_A=40$ °C (Note 2)	I(AV)				1.0				А
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	Ifsm	30							А
Rating for Fusing (t $<$ 8.3ms)	I ² t	10							A ² s
Maximum Instantaneous Forward Voltage drop Per Bridge element 1.0A	V _F	1.1							V
Maximum DC Reverse Current at $T_A=25$ °C	Ir	5.0 0.5							μΑ
at Rated DC Blocking voltage $T_A=125^{\circ}C$									mA
Typical Junction Capacitance (Note 1)	C _J	25							pF
Typical Thermal Resistance (Note 2)	Røjc	40							°C/W
Operating and Storage Temperature Range	T_J , Tstg	-55 to +150							°C

Note: 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

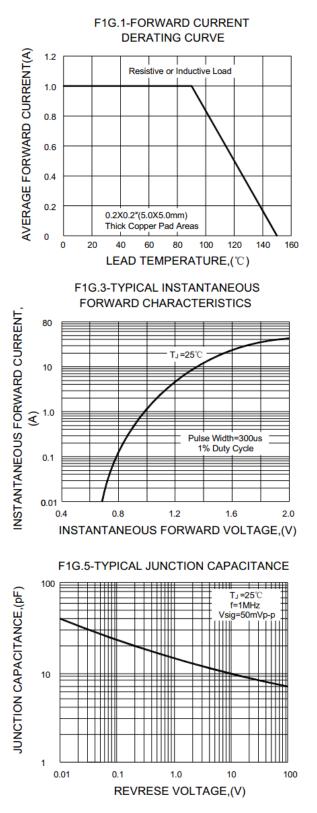
2. Unit mounted on P.C.B. with 0.95"×1.15" copper pads.

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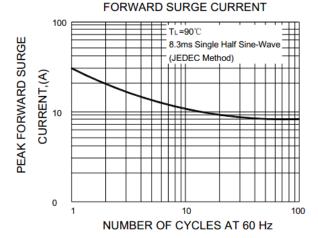
MB1F THRU MB10F

SURFACE MOUNT FAST SWITCHING RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere

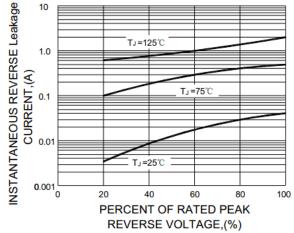
RATING AND CHARACTERISTIC CURVES MB1F THRU MB10F



F1G.2-MAXIMUM NON-REPETITIVE PEAK



F1G.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.