Kingtronics®

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

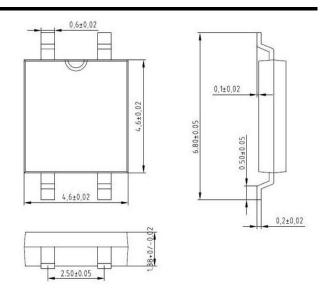
method 208C

Weight: 0.003 ounce, 0.1 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

For capacitive load derate current by 20%

MBF



Dimensions in inches and (millimeters)

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 $T_A=40^{\circ}$ (Note 2)	I _(AV)				1.0				А
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	İfsm				30				А
Rating for Fusing (t<8.3ms)	l 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 $^{\circ}$ C at Rated DC Blocking voltage T_A =125 $^{\circ}$ C	I_{R}	5.0 0.5							uA
									mA
Typical Junction Capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	Rejc	40							℃W
Operating and Storage Temperature Range	T_J , $TSTG$	-55 to +150							$^{\circ}$
1. Managered at 1.0MHz and applied reverse voltage of 4.0 Volta									

- 1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2- Unit mounted on P.C.B. with 0.95"x1.15" copper pads.

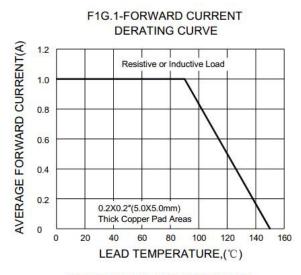
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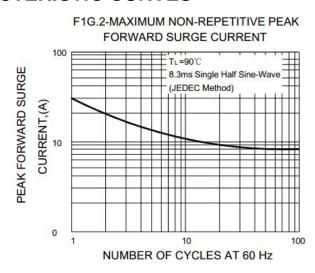
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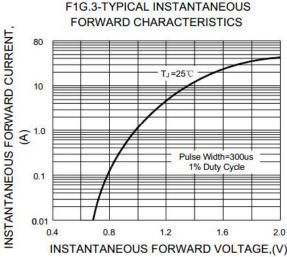
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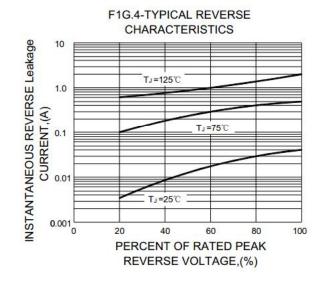
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RATINGS AND CHARACTERISTIC CURVES

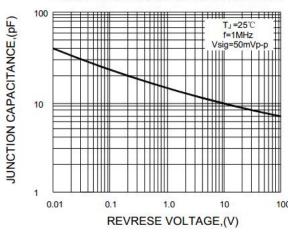












Note: Specifications are subject to change without notice.

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