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 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

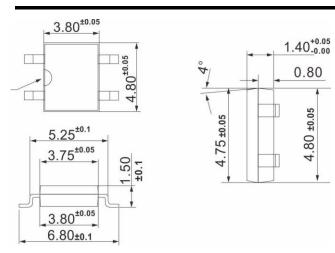
Polarity: Molded on body

Lead: Plated terminals solderable per MIL-STD-202E

method 208C

Weight: 0.003 ounce, 0.1 gram

MBF



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

Dimensions in millimeters

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				A
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 , $Tsrg$	-55 to +150							$^{\circ}$

- 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.

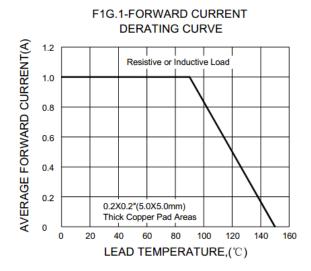
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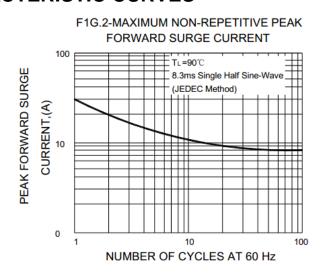
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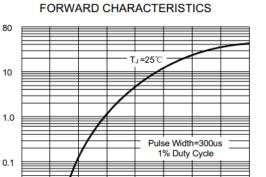
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RATINGS AND CHARACTERISTIC CURVES



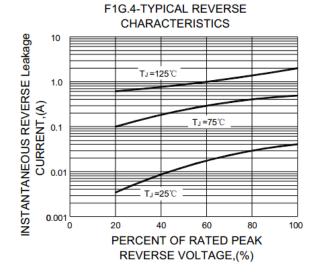




INSTANTANEOUS FORWARD CURRENT,

0.01

F1G.3-TYPICAL INSTANTANEOUS



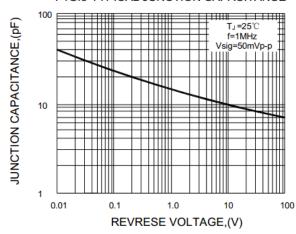
F1G.5-TYPICAL JUNCTION CAPACITANCE

1.2

INSTANTANEOUS FORWARD VOLTAGE,(V)

1.6

8.0



Note: Specifications are subject to change without notice.

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