MOSPEC

MB1S thru MB10S

1.0A Single-Phase Bridges

FEATURES：

·Glass passivated chip junction

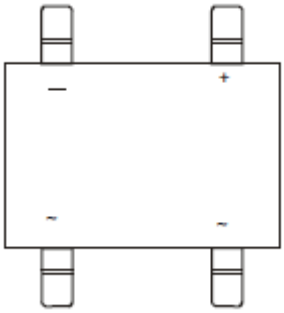
·Low forward voltage drop.

·Low forward voltage drop.

·High surge current capability.

·Ideal for printed circuit board.

·High temperature soldering guaranteed 260°C/10seconds.



MBS

MECHANICAL DATA：

·Case：Molded plastic, MBS

·Epoxy: UL 94V-O rate flame retardant

·Terminals : :Plated terminals solderable per MIL-STD-202E method 208C

·Polarity: Marked on body

·Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
(Rating at 25 C ambient temperature unless otherwise specified. Single, half wave, 60Hz resistive or inductive load. For capacitive load, derate current by 20%)

Characteristic	Symbol	MB1S	MB2S	MB4S	MB6S	MB8S	MB10S	Unit
Maximum Reverse Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T_A=40℃	I_O	1.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35						A
Rating for Fusing (t < 8.3ms)	I^2t	64						A^2S
Forward Voltage I_F=1.0A	V_F	1.05						V
Maximum DC reverse current at rated DC blocking voltage (T_A=25℃ / T_A=125℃)	I_R	5 / 500						uA
Typical Thermal resistance	$R_{\theta JA}$ $R_{\theta JL}$	76 20						℃/W
Operating& Storage temperature range	T_J, T_{STG}	-55 ~ +150						℃

RATINGS AND CHARACTERISTICS CURVES

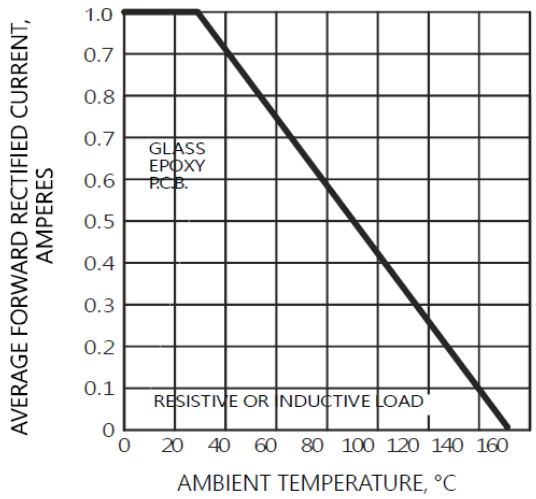


Figure 1. DERATING CURVE FOR OUTPUTRECTIFIED CURRENT

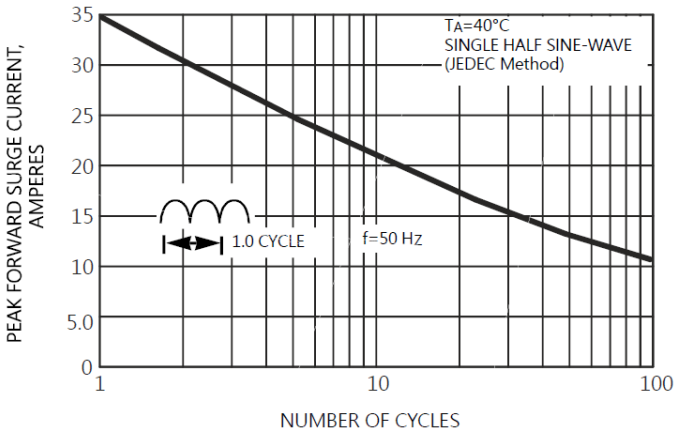


Figure 2. MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE

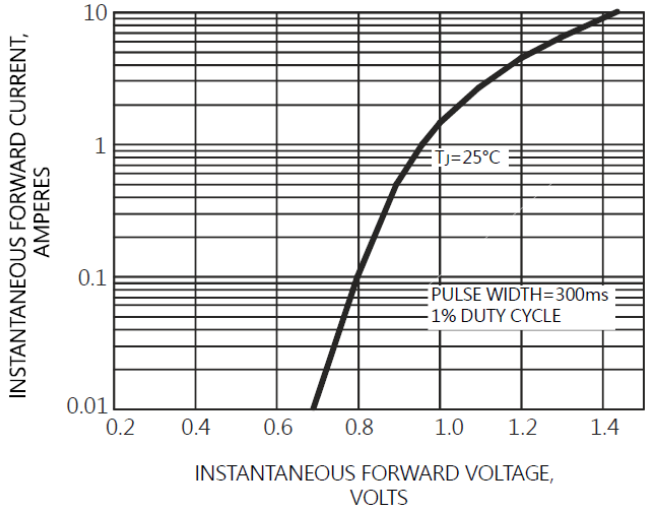


Figure 3. TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

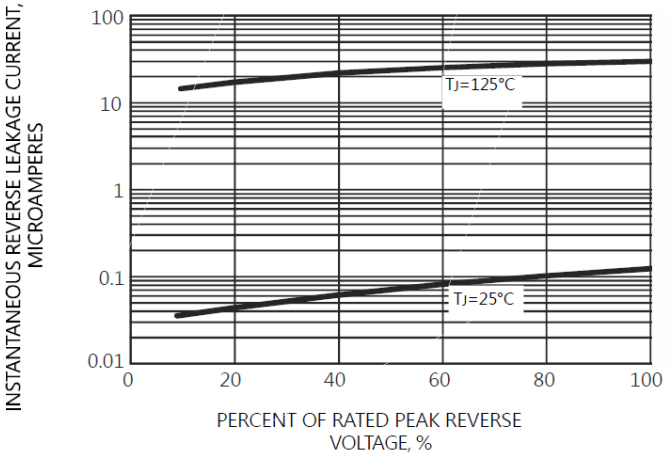


Figure 4. TYPICAL REVERSE LEAKAGE CHARACTERISTICS

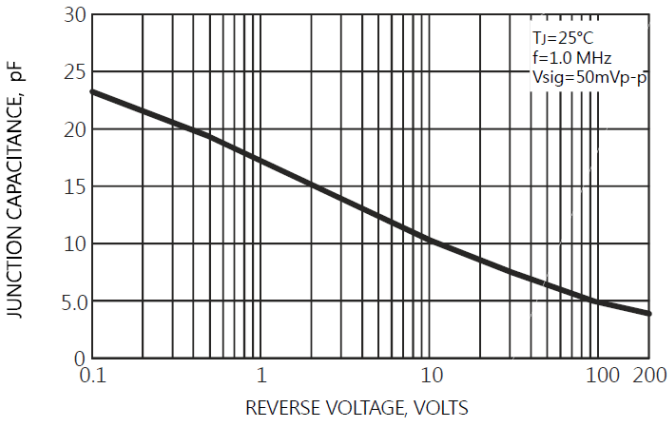
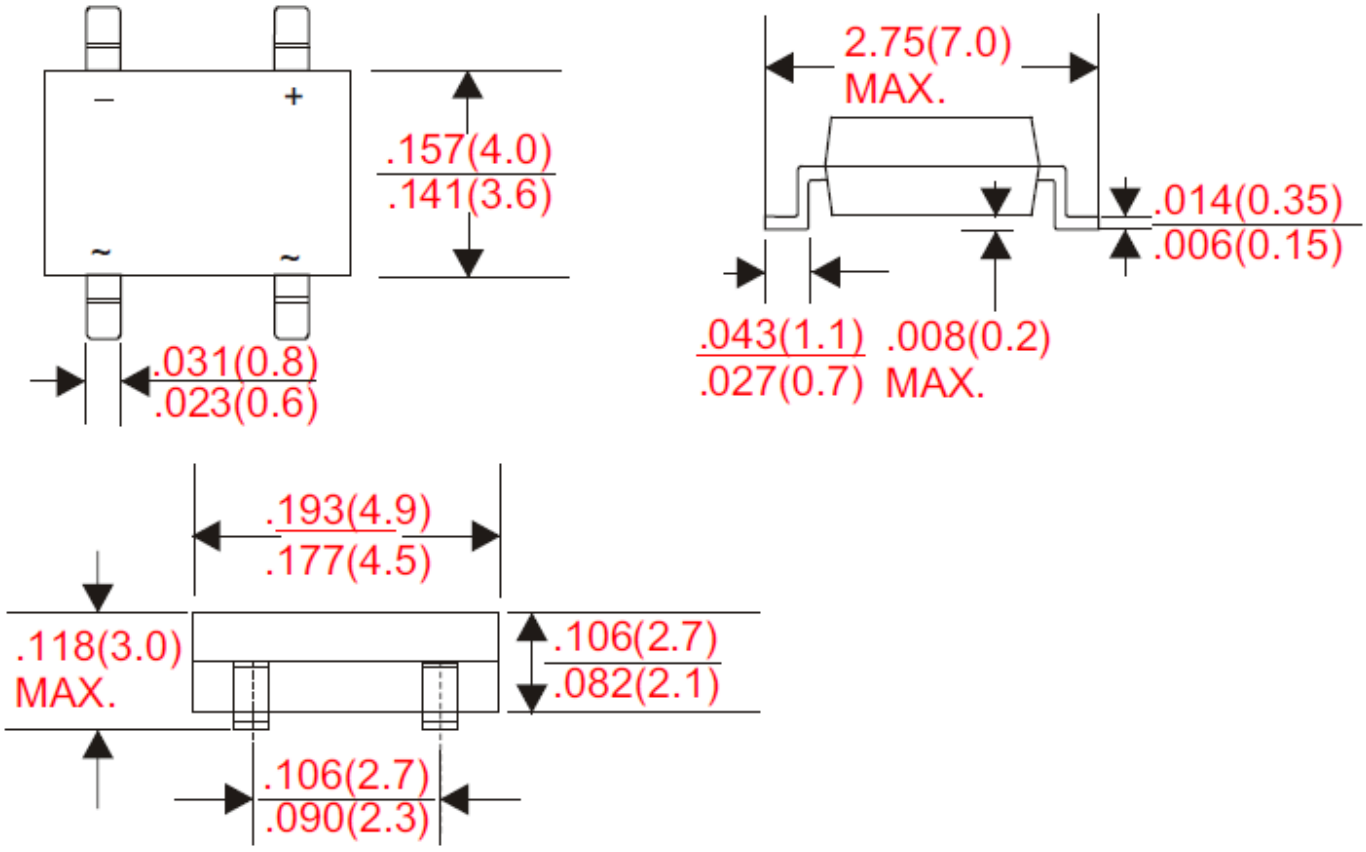


Figure 5. TYPICAL JUNCTION CAPACITANCE PER LEG

·Package outlines : Dimensions in inches (millimeters)



Notice

MOSPEC reserves the rights to make changes of the content herein the document anytime without notification. MOSPEC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies. Please refer to MOSPEC website for the last document.

MOSPEC disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially incurred.

Application shown on the herein document are examples of standard use and operation. Customers are responsible for comprehending suitable use in particular applications. MOSPEC makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by MOSPEC for any infringements of patents or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of MOSPEC or others.

These MOSPEC products are intended for usage in general electronic equipment. Please make sure to consult with MOSPEC before you use these MOSPEC products in equipment which require specialized quality and/or reliability, and in equipment which could have major impact to the welfare of human life (atomic energy control, aeronautics , traffic control, combustion control, safety devices etc.)