

FEATURES

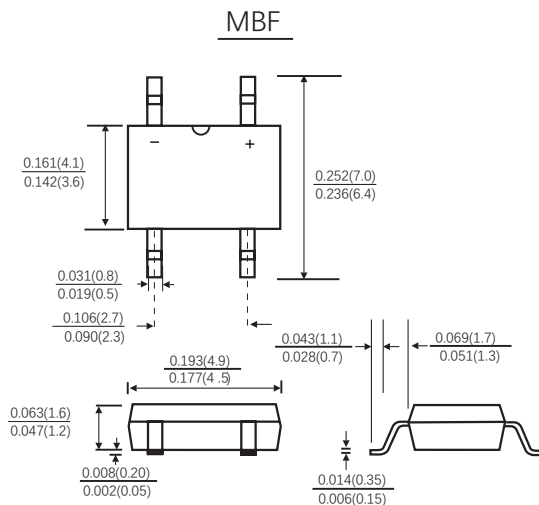
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

MECHANICAL DATA

- Case: MBF molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,method 2026
- Mounting Position: Any

TYPICAL APPLICATIONS

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications.



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%.)

Parameters		Symbols	MB1F	MB2F	MB4F	MB6F	MB8F	MB10F	Units
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		$I_{F(AV)}$	1.0						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	35						A
Maximum Instantaneous Forward Voltage at 1.0A		V_F	1.1						V
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	I_R	5						μA
	$T_A=125^{\circ}C$		100						
Typical junction capacitance(Note 2)		C_j	13						pF
Typical thermal resistance(Note 1)		$R_{\theta JA}$ $R_{\theta JL}$	100 36						$^{\circ}C/W$
Operating junction and storage temperature range		$T_J \backslash T_{STG}$	-55 to +150						$^{\circ}C$

Note: 1.On glass-epoxy P.C.B mounted on 0.05*0.05"(1.3*1.3mm)pads.

2.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

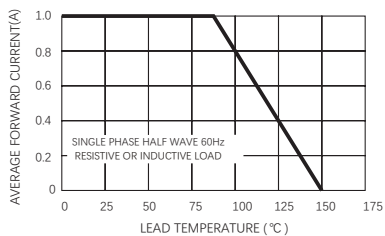


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

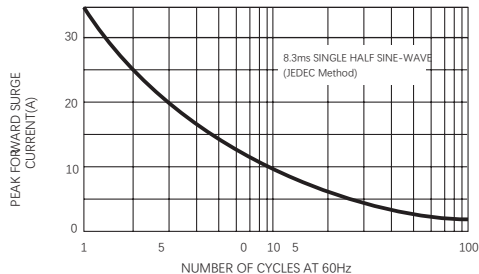


FIG3-TYPICAL JUNCTION CAPACITANCE

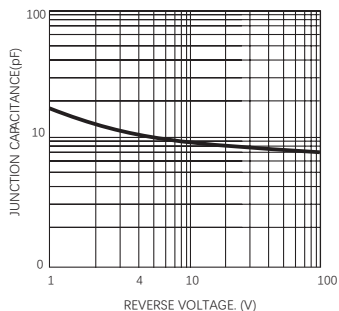


FIG4-TYPICAL FORWARD CHARACTERISTICS

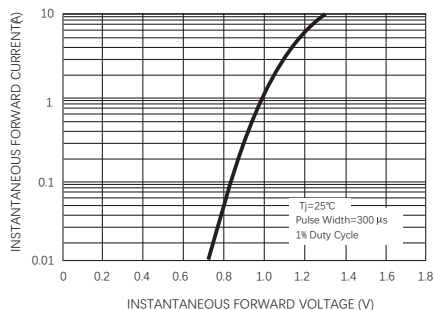
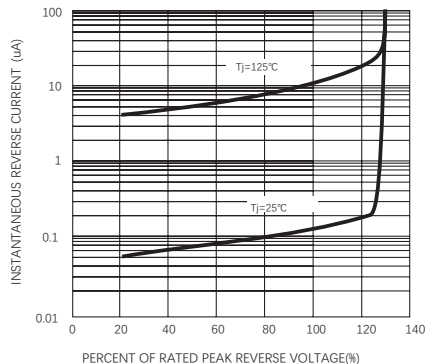


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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