



MB32S THRU MB310S

SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

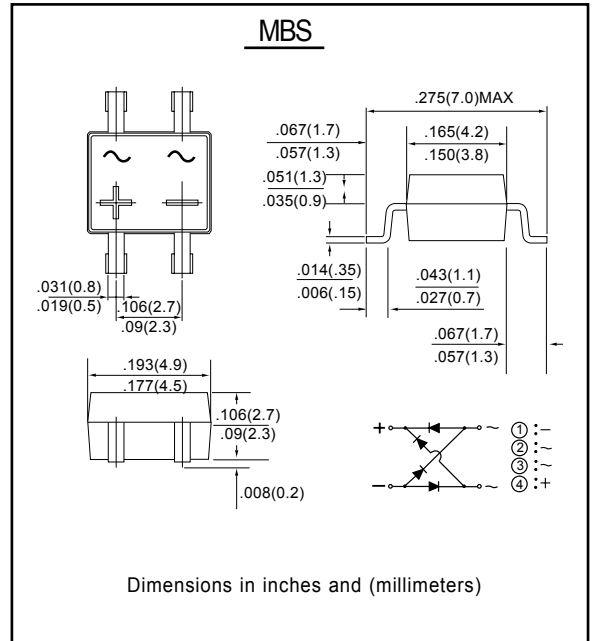
Reverse Voltage - 20 to 100 Volts Forward Current - 3.0 Ampere

FEATURES

- Surge overload rating - 80 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded
- Glass passivated device
- Polarity symbols molded on body

MECHANICAL DATA

- Case : MBS, Molded Plastic
- Epoxy : Device has UL flammability classification 94V-0
- Mounting Position : Any
- Weight : 0.22 grams (approx.)
- Marking : Type Number



Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Parameter	Symbol	MB32S	MB34S	MB36S	MB38S	MB310S	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	V
Maximum Average forward output current	$I_{F(AV)}$	3.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80					A
Maximum instantaneous forward voltage at 3.0A	VF	0.55		0.70		0.85	V
Maximum DC reverse current at rated DC blocking voltage per leg	I_R	0.5					mA
		20					
Typical thermal resistance per leg(Note1)	$R_{\theta JA}$ $R_{\theta JL}$	60 28					$^{\circ}\text{C}/\text{W}$
Operation junction temperzture range	T_j	-55 to +125					$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150					$^{\circ}\text{C}$

Notes: 1. Thermal resistance form junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2"(5.0×5.0mm) copper pad areas.



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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

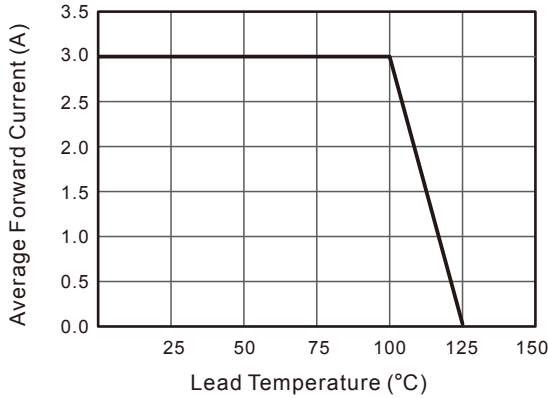


Fig.2 Typical Reverse Characteristics

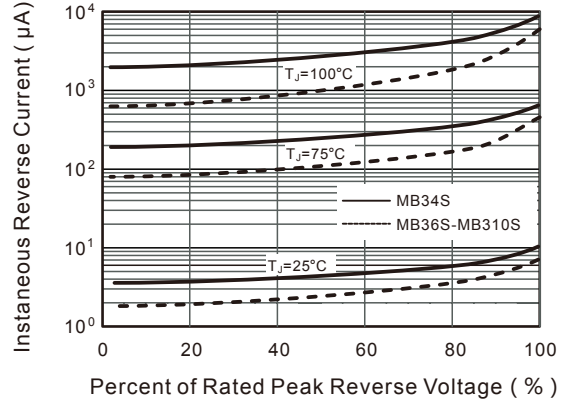


Fig.3 Typical Forward Characteristic

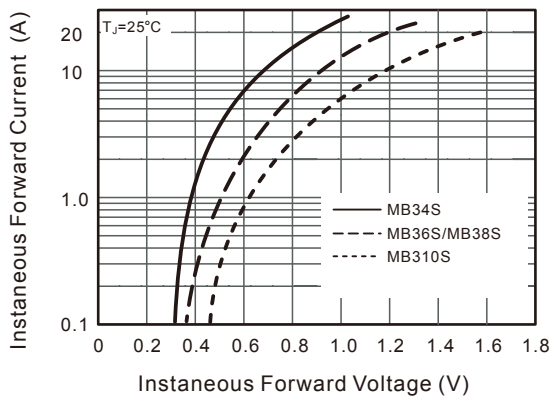


Fig.4 Typical Junction Capacitance

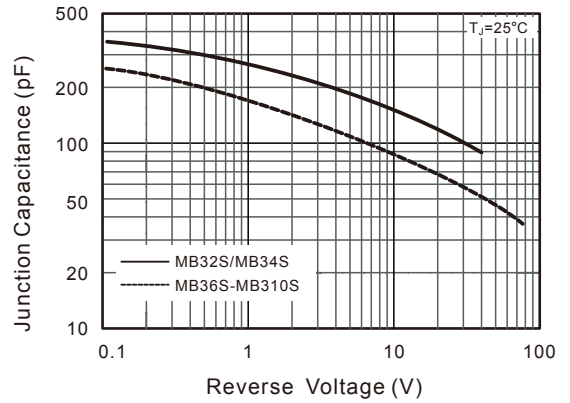


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

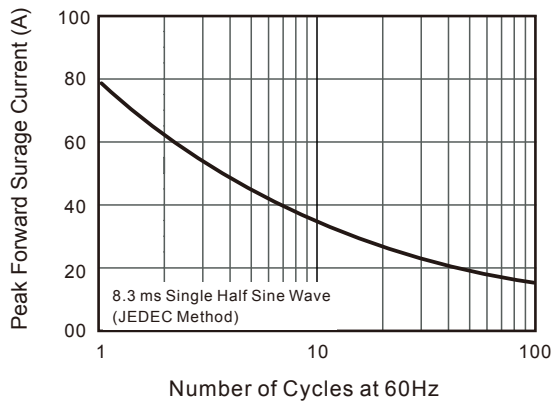


Fig.6 Typical Transient Thermal Impedance

