



# MB22S THRU MB210S

## SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

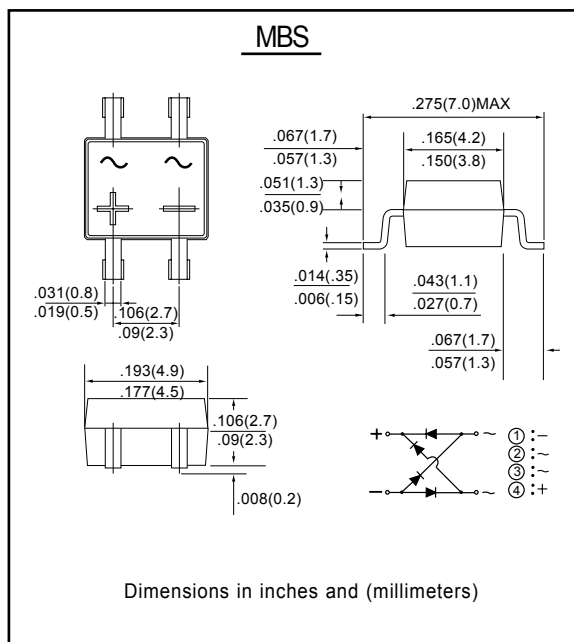
Reverse Voltage - 20 to 100 Volts    Forward Current - 2.0 Ampere

### FEATURES

- Surge overload rating - 50 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	MB22S	MB24S	MB26S	MB28S	MB210S	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	$I_{F(AV)}$	2.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50					A
Maximum instantaneous forward voltage at 2.0A	VF	0.50		0.70		0.85	V
Maximum DC reverse current at $T_A=25^{\circ}\text{C}$ rated DC blocking voltage per leg $T_A=100^{\circ}\text{C}$	IR	0.5					mA
		20					
Typical thermal resistance per leg(Note1)	$R_{\theta JA}$	88					$^{\circ}\text{C}/\text{W}$
	$R_{\theta JL}$	28					
Operation junction temperature range	$T_j$	-55 to +150					$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150					$^{\circ}\text{C}$

**Notes:** 1. Thermal resistance from 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

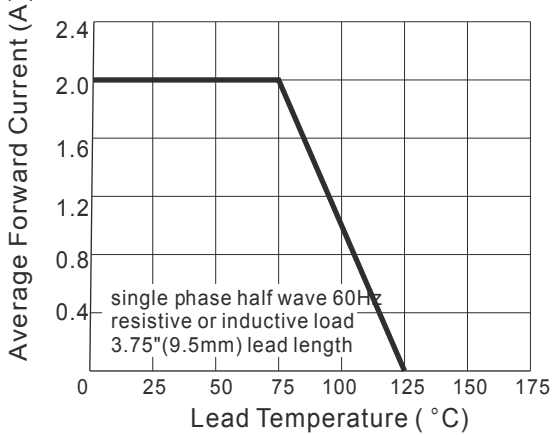


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

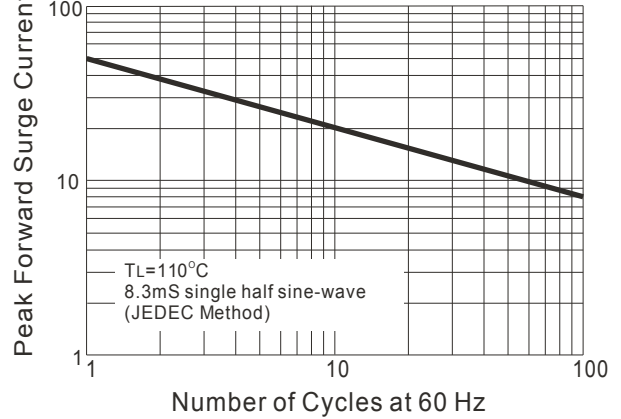


Fig. 3 - Typical Instantaneous Forward Characteristics

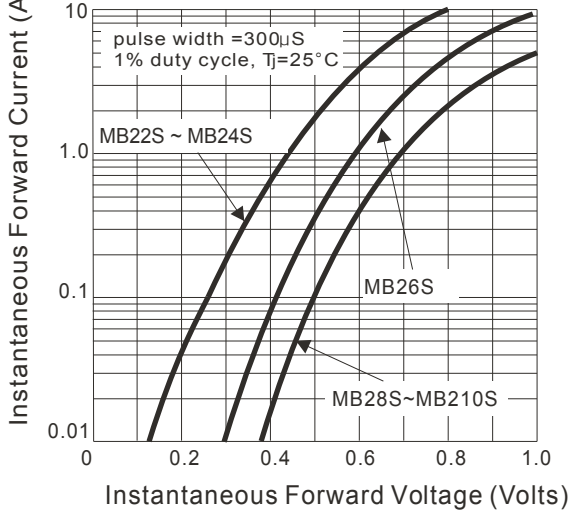


Fig. 4A - Typical Reverse Characteristics

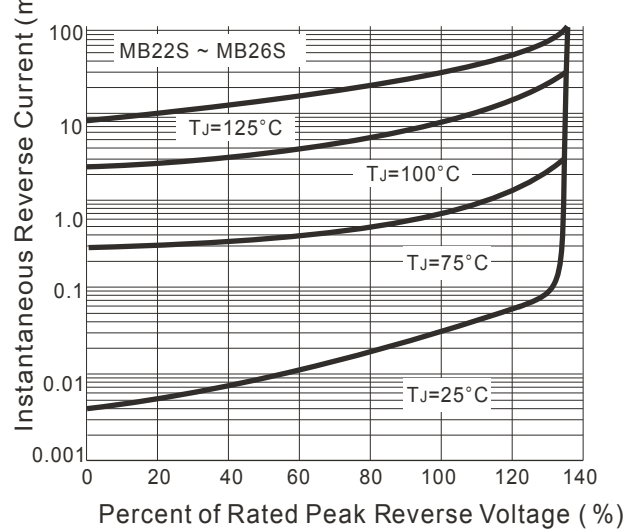


Fig. 5 - Typical Junction Capacitance

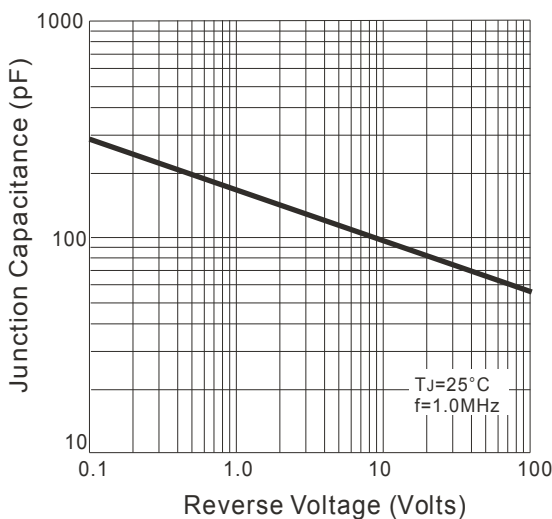


Fig. 4B - Typical Reverse Characteristics

