

SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

MB22S THRU MB210S

Vishaymas General Semiconductor

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

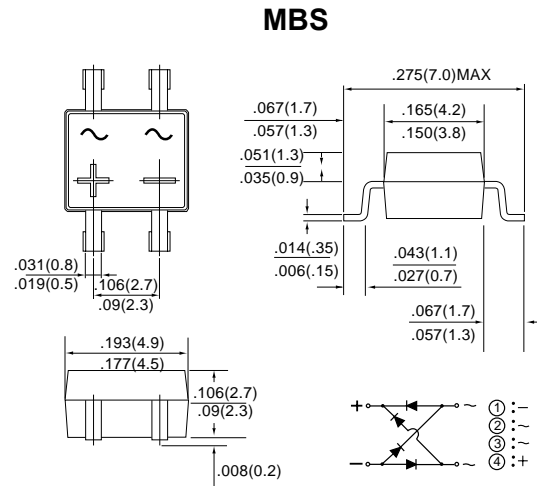
Case : MBS, Molded Plastic

Epoxy : Device has UL flammability classification 94V-0 Mounting

Position : Any

Weight : 0.22 grams (approx.)

Marking : Type Number



Dimensions in inches and (millimeters)

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					20	mA
Typical thermal resistance per leg(Note1)	$R_{\theta JA}$	88					$^{\circ}\text{C/W}$	
	$R_{\theta JL}$	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 0.2x0.2"(5.0x5.0mm) copper pad areas.

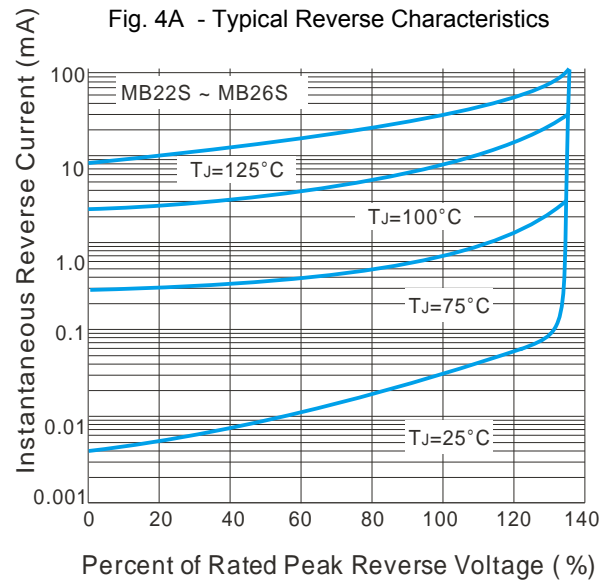
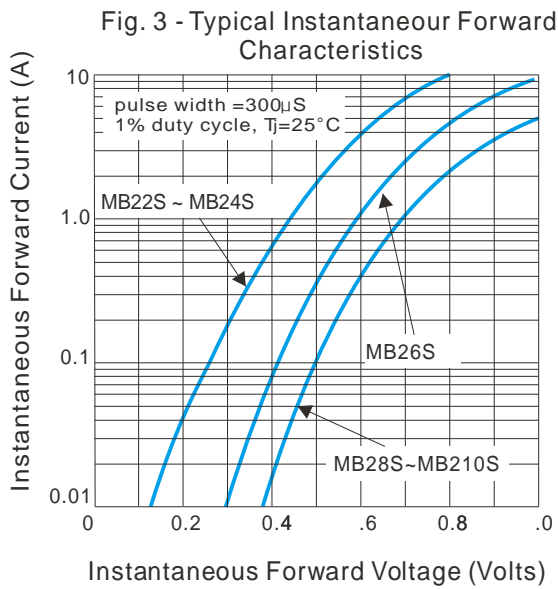
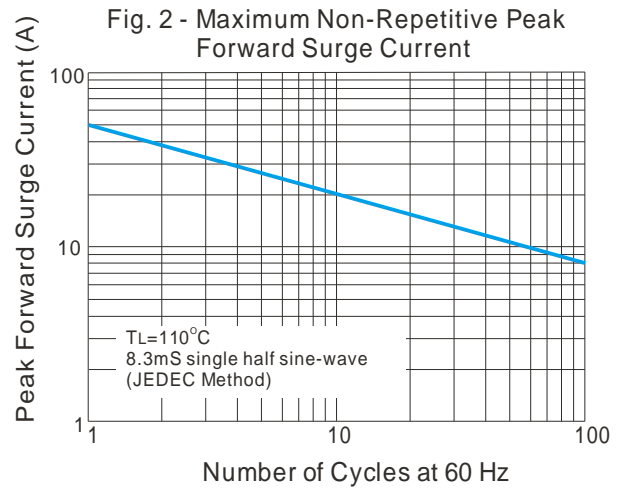
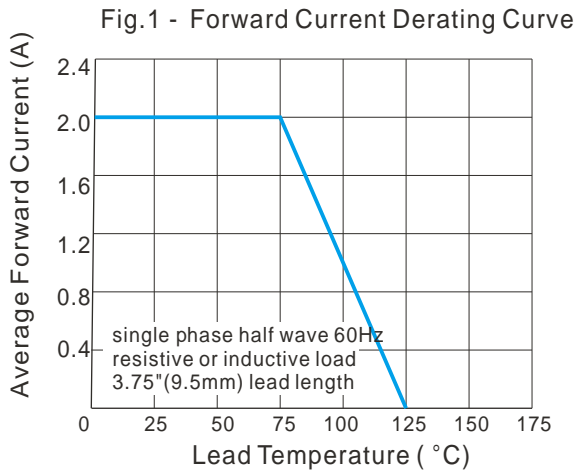


Fig. 5 - Typical Junction Capacitance

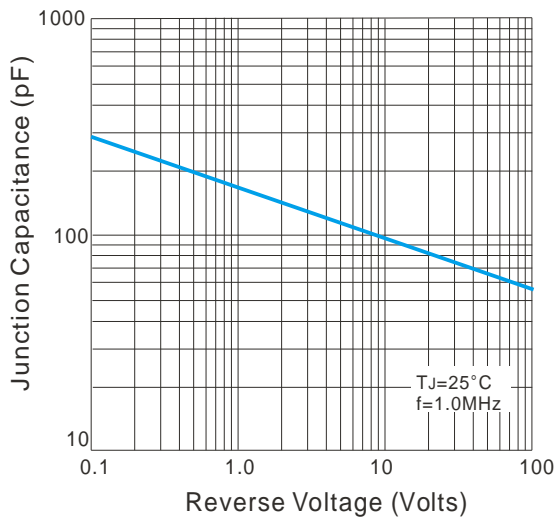


Fig. 4B - Typical Reverse Characteristics

