

2.0A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIERS -20V- 100V MD-S PACKAGE

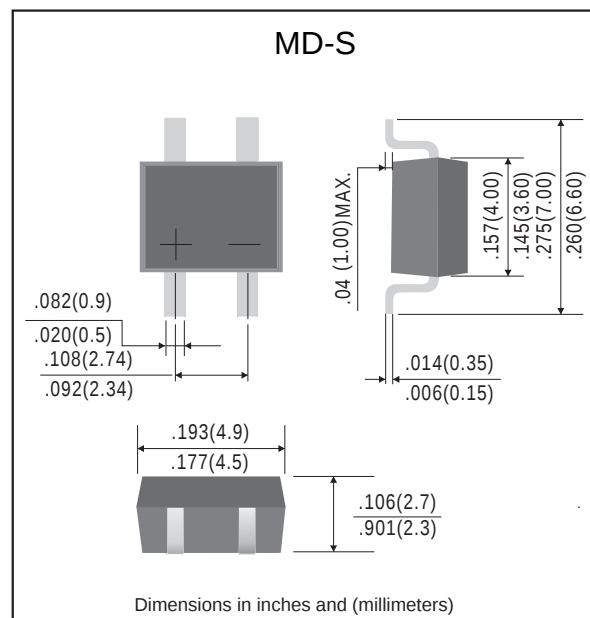
**MB22S
THRU
MB210S**

FEATURES

- * Plastic package has underwriters laboratory flammability classification 94V-0
- * Saves space on printed circuit boards
- * High temperature soldering guaranteed: 260 °C /10 seconds.
- * RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- * **Moisture Sensitivity Level 1**

MECHANICAL DATA

Case: Molded plastic, MD-S
Epoxy: UL 94V-0 rate flame retardant
Terminals: Solder plated, solderable per
MIL-STD-750, Method 2026.
Marking: Type Number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

RATINGS	SYMBOL	MB22S	MB24S	MB26S	MB28S	MB210S	UNIT
Marking Code		MB22S	MB24S	MB26S	MB28S	MB210S	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	Volts
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	Volts
Maximum Average Forward Rectified Current	I _O	2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50					Amps
Typical Thermal Resistance (Note 1)	R _{θJA}	88					°C/W
	R _{θJL}	28					°C/W
Operating Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

CHARACTERISTICS		SYMBOL	MB22S	MB24S	MB26S	MB28S	MB210S	UNIT
Maximum Forward Voltage at 2.0A DC		V _F	0.50		0.70	0.85		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@T _a =25°C	I _R	0.5					mAmps
	@T _a =100°C		20					

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.



RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

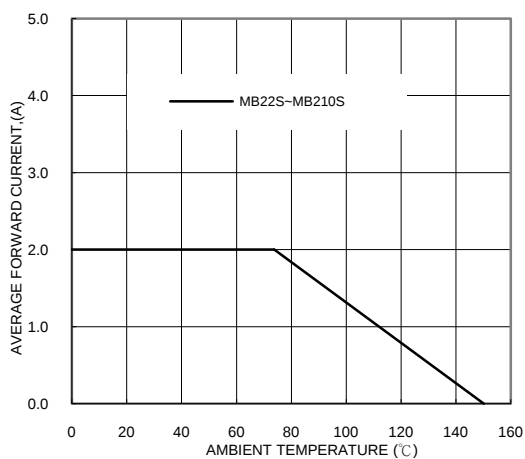


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

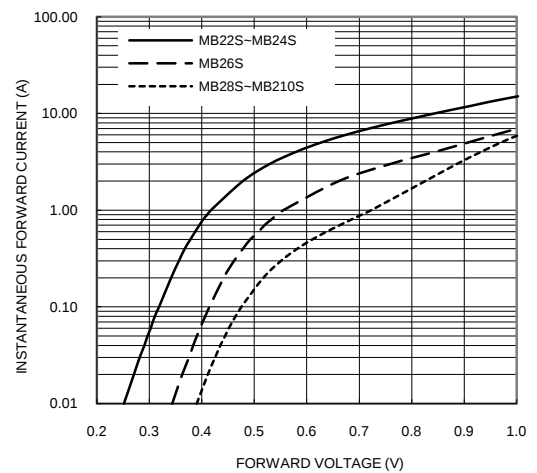


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

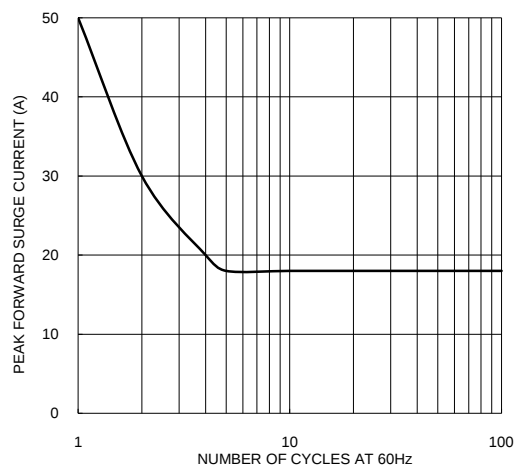


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

