

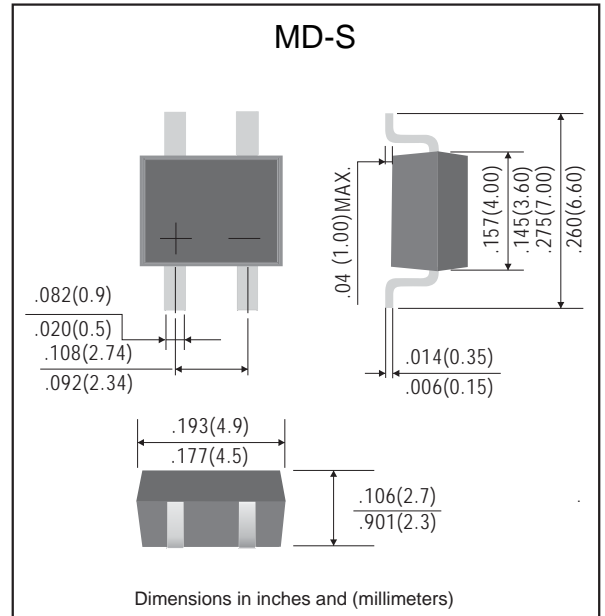
**2.0A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIERS -20V- 100V  
MD-S PACKAGE**

**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-O 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 <sub>RRM</sub>	20	40	60	80	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	40	60	80	100	Volts
Maximum Average Forward Rectified Current	I <sub>O</sub>	2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50					Amps
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	88					°C/W
	R <sub>θJL</sub>	28					°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +150					°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150					°C

CHARACTERISTICS	SYMBOL	MB22S	MB24S	MB26S	MB28S	MB210S	UNIT
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	0.50		0.70	0.85		Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	@T <sub>a</sub> =25°C	0.5					mAmps
	@T <sub>a</sub> =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

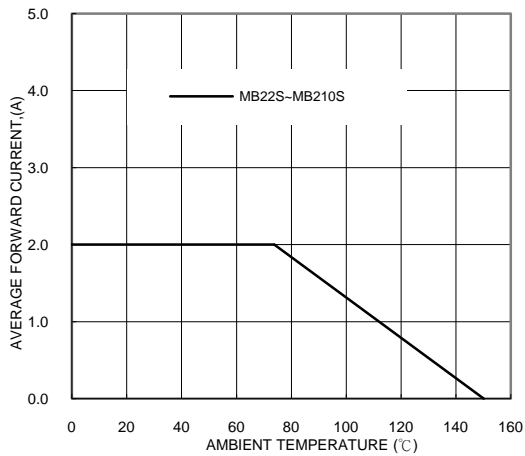


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

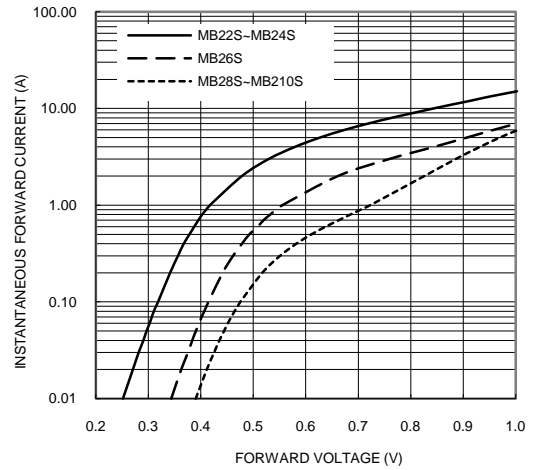


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

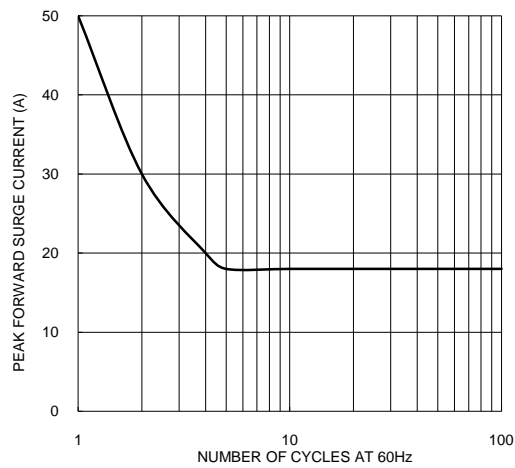


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

