WILLAS

RoHS COMPLIANT

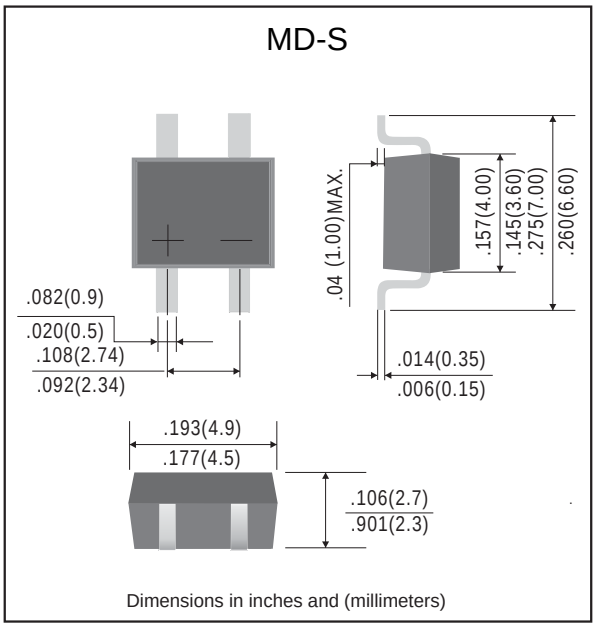
MB22S THRU MB210S

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 ºC /10 seconds.
* RoHS product for packing code suffix "G"
  Halogen free product for packing code suffix "H"
* **Moisture Sensitivity Level 1**



Dimensions in inches and (millimeters)

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℃ ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive of 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)	$R_{\Theta JA}$	88					℃/W
	$R_{\Theta JL}$	28					℃/W
Operating Temperature Range	T_J	-55 to +150					℃
Storage Temperature Range	T_{STG}	-55 to +150					℃

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	@Ta=25℃	I_R	0.5					mAmps
Rated DC Blocking Voltage	@Ta=100℃		20					

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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RATING AND CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

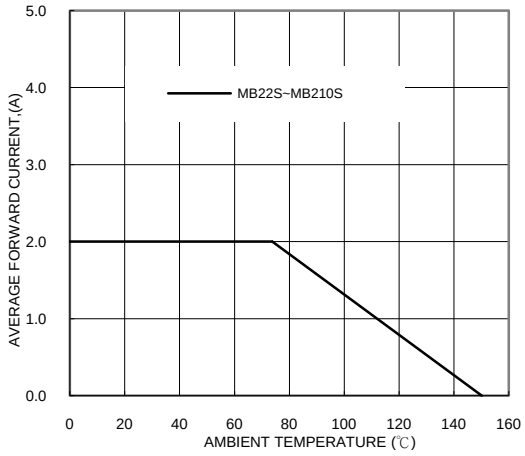

FIG. 2-TYPICAL FORWARD CHARACTERISTICS

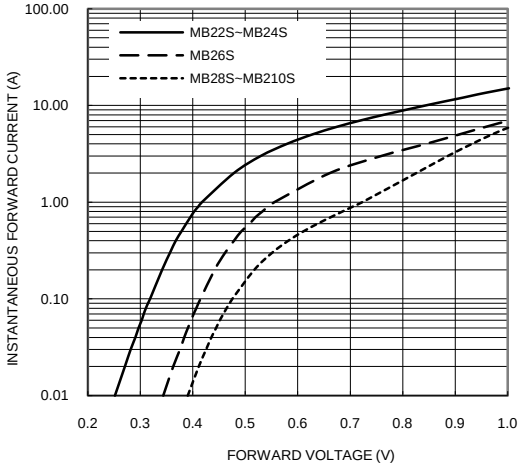

FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

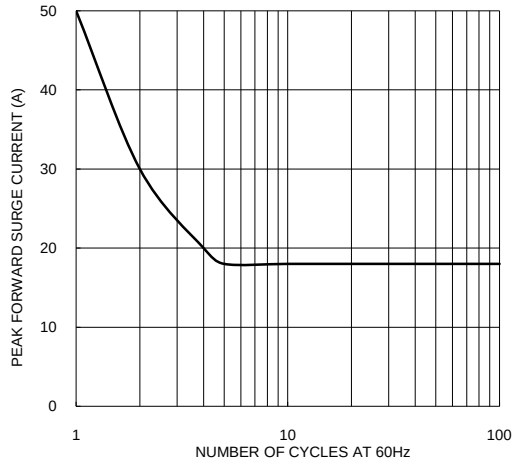

FIG. 4-TYPICAL REVERSE CHARACTERISTICS