

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"

MECHANICAL DATA

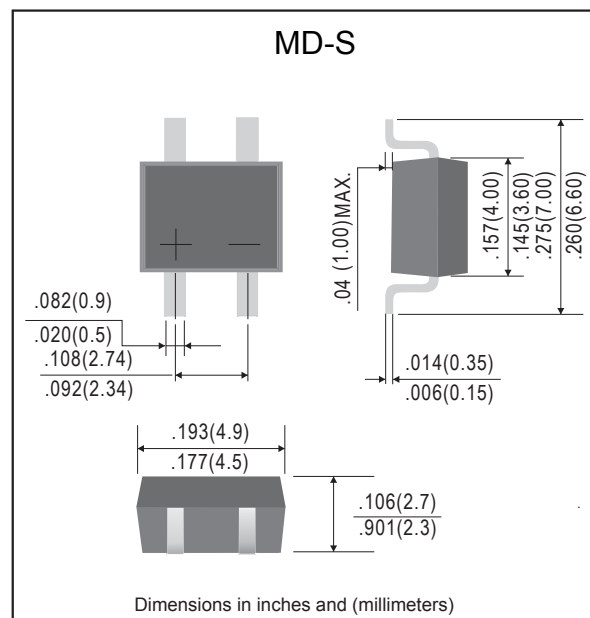
Case: Molded plastic, MD-S

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	MB12S	MB14S	MB16S	MB18S	MB110S	UNIT
Marking Code		MB12S	MB14S	MB16S	MB18S	MB110S	
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	1.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30					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	MB12S	MB14S	MB16S	MB18S	MB110S	UNIT
Maximum Forward Voltage at 1.0A DC		V _F	0.50		0.70	0.85		Volts
Maximum Average Reverse Current at	@T a=25°C	I _R	0.5					mAmps
Rated DC Blocking Voltage	@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 Forward Current Derating Curve

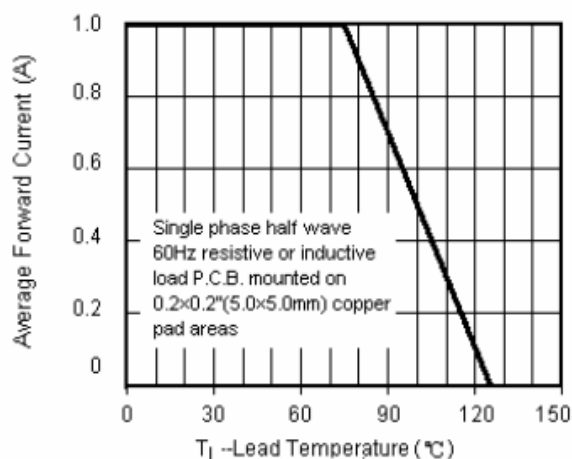


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

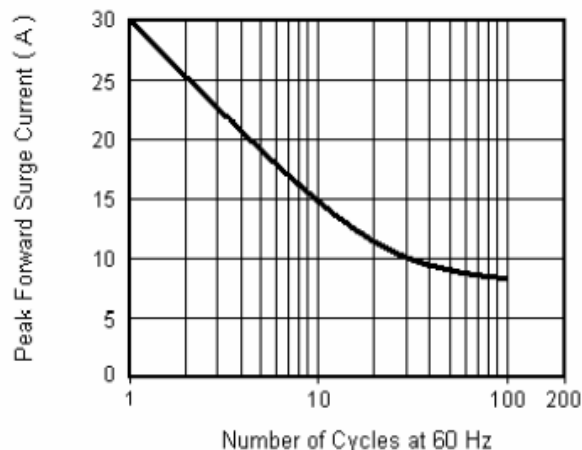


Fig.3 Typical Instantaneous Forward Characteristics

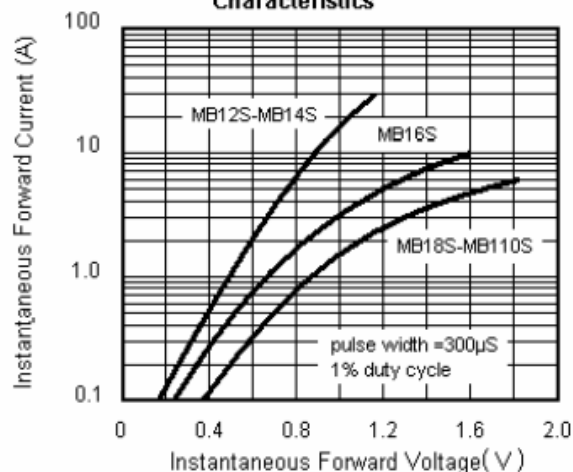


Fig.4 Typical Junction Capacitance

