Pb Free Plating Product

MB12S thru MB110S

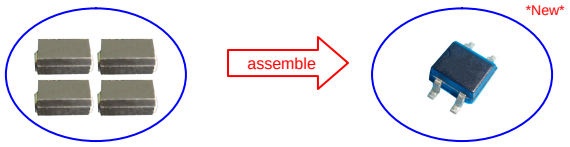
1.0 Ampere Surface Mount MDS/MD-S Schottky Bridge Rectifiers

FEATURES

- Surge overload rating - 30 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded
- Schottky barrier rectifier diode chip device
- Polarity symbols molded on body

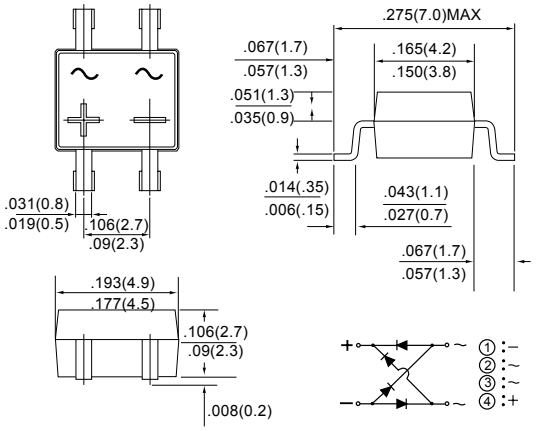
MECHANICAL DATA

- Case : MDS/MD-S Package, Molded Plastic
- Epoxy : Device has UL flammability classification 94V-0
- Mounting Position : Any
- Weight : 0.22 grams (approx.)
- Marking : Type Number



4PCS SMA/DO-214AC　　1PCS MDS/MD-S

MDS/MD-S



Dimensions in inches and (millimeters)

Maximum Ratings @T_A=25°C unless otherwise specified

Parameter	Symbol	MB12S	MB14S	MB16S	MB18S	MB110S	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	$I_{F(AV)}$	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum instantaneous forward voltage at 1.0A	VF	0.50		0.70	0.85		V
Maximum DC reverse current at TA=25℃	IR	0.5					mA
rated DC blocking voltage per leg TA=100℃		20					
Typical thermal resistance per leg(Note1)	$R_{\theta JA}$	88					℃/W
	$R_{\theta JL}$	28					
Operation junction temperzture range	Tj	-55 to +150					℃
Storage temperature range	T_{STG}	-55 to +150					℃

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.

Fig.1 Forward Current Derating Curve

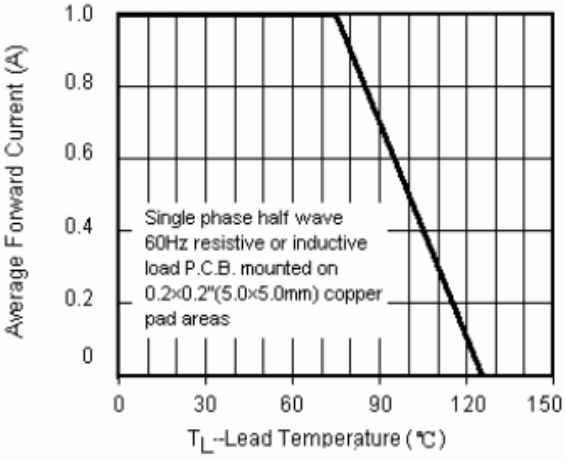


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

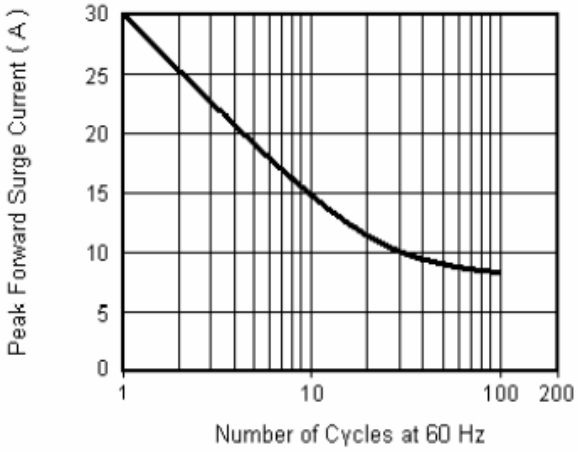


Fig.3 Typical Instantaneous Forward Characteristics

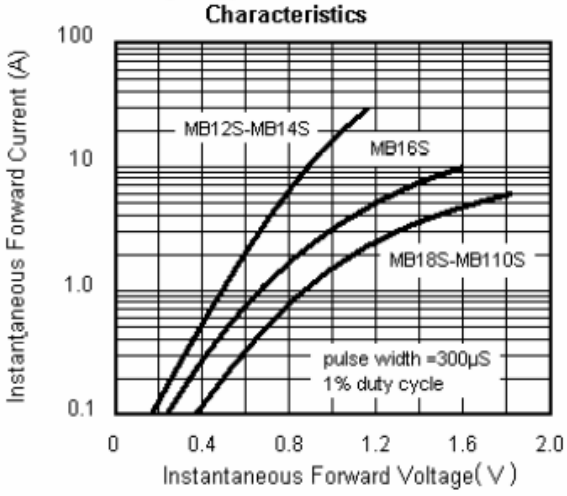


Fig.4 Typical Junction Capacitance