

MB12S~MB110S

SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

VOLTAGE	20 to 100 Volt	CURRENT	1.0 Ampere
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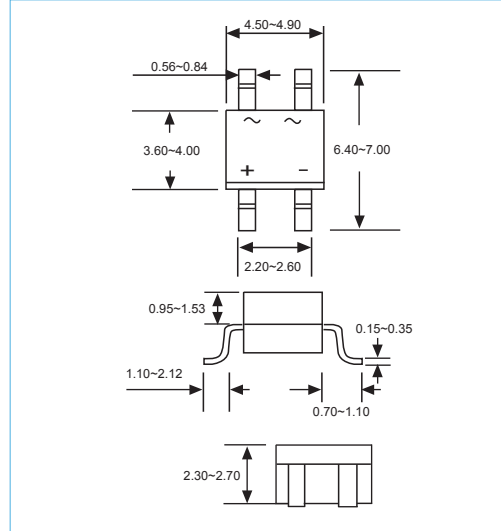
MBS Unit:mm

FEATURES

- Schottky barrier rectifier diode chip device
- Saves space on printed circuit boards
- Reliable low cost construction utilizing molded
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MB12S	MB14S	MB16S	MB18S	MB110S	UNITS
Maximum Recurrent 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 Current (see FIG.1)	$I_{F(AV)}$	1.0					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30					A
Maximum Forward Voltage at 0.4 A	V_F	0.50		0.70		0.85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R			0.5		20	mA
Thermal Resistance	$R_{\theta JA}$			88			°C / W
Operating Junction Temperature Range	T_J			-55 to +150			°C
Storage Temperature Range	T_{STG}			-55 to +150			°C

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RATING AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

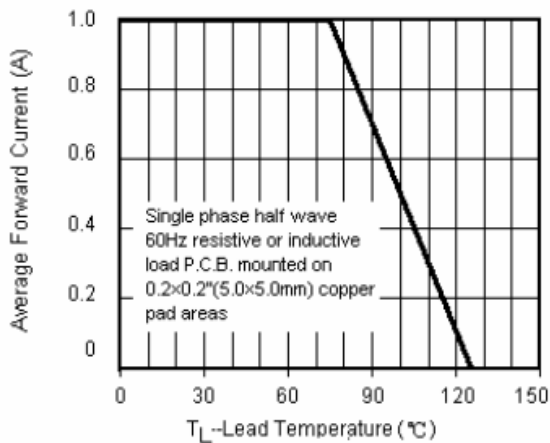


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

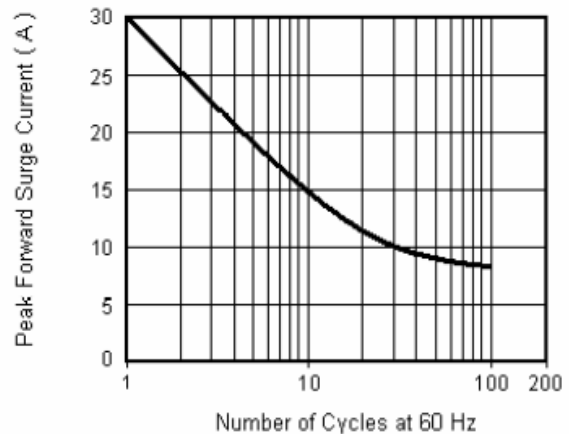


Fig.3 Typical Instantaneous Forward Characteristics

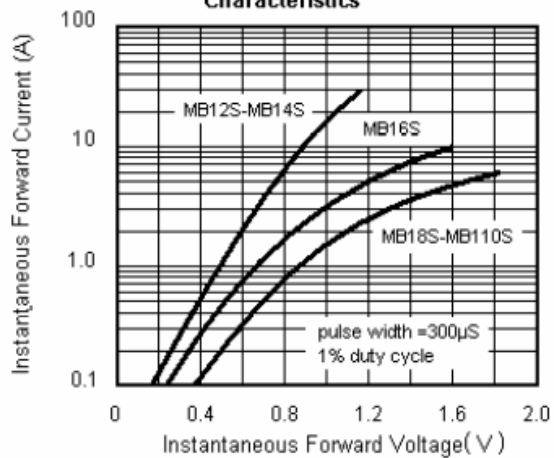
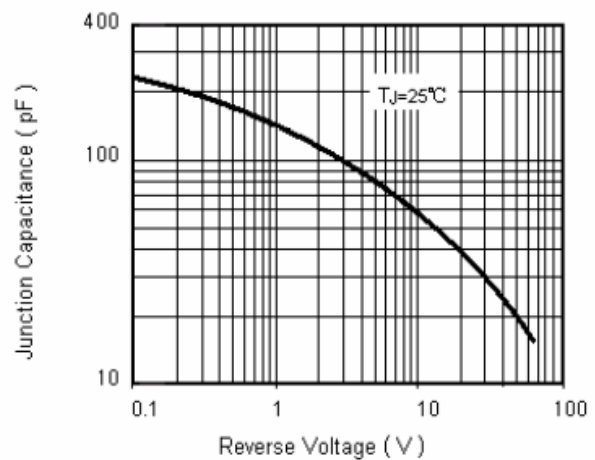


Fig.4 Typical Junction Capacitance



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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
MB12S~MB110S	MBS	13 Inch	3000/Reel