

MB6S

MINIATURE SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

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MINIATURE GLASS PASSIVATED SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER



REVERSE VOLTAGE: 800 VOLTS
FORWARD CURRENT: 0.5 AMPERE

FEATURES

- Surge overload rating: 30 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Low leakage
- Reliable low cost construction utilizing molded

MECHANICAL DATA

Case: Molded plastic, MD-S

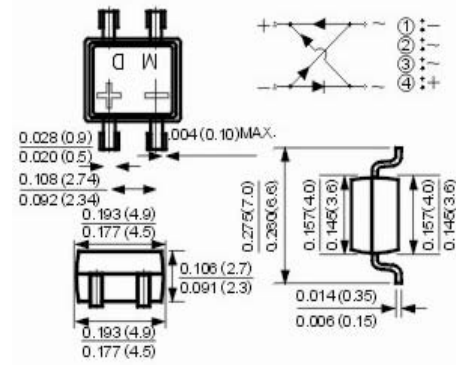
Epoxy: UL 94V-0 rate flame retardant

Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: Any

Weight: 0.008ounce, 0.22gram

MD-S



Dimensions in inches and (millimeters)

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%.

	Symbols	MB6S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	800	Volts
Maximum RMS Voltage	V_{RMS}	560	Volts
Maximum DC Blocking Voltage	V_{DC}	800	Volts
Maximum Average Forward Rectified Current (see Fig. 1) on glass-epoxy P.C.B (Note 2)	$I_{(AV)}$	0.5	Amp
on aluminum substrate (Note 3)		0.8	
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30	Amp
Maximum Forward Voltage at 0.4A DC and 25°C	V_F	1.05	Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$	I_R	5.0	uAmp
at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$		100	
Typical Junction Capacitance (Note 1)	C_J	13	pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	70	°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	20	°C/W
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150	°C

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3mm) pads

3- On aluminum substrate P.C.B. with an area of 0.8" x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - Derating Curve for Output Rectified Current

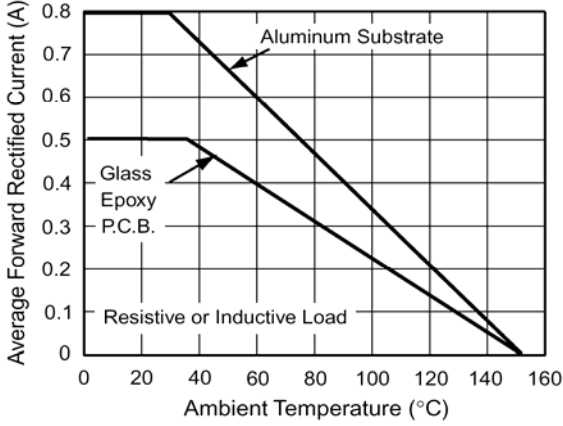


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

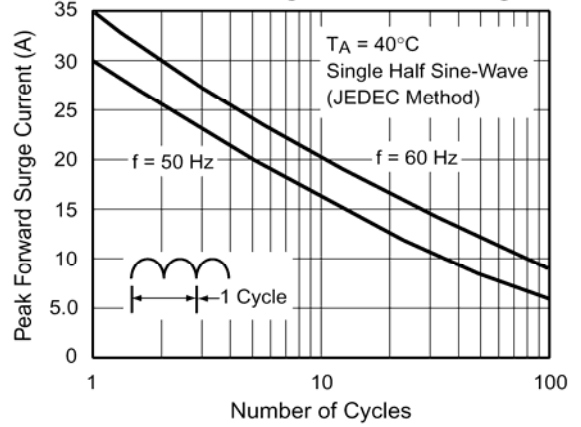


Fig. 3 - Typical Forward Voltage Characteristics Per Leg

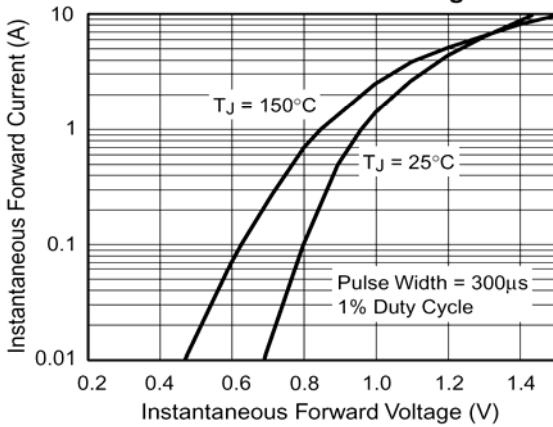


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

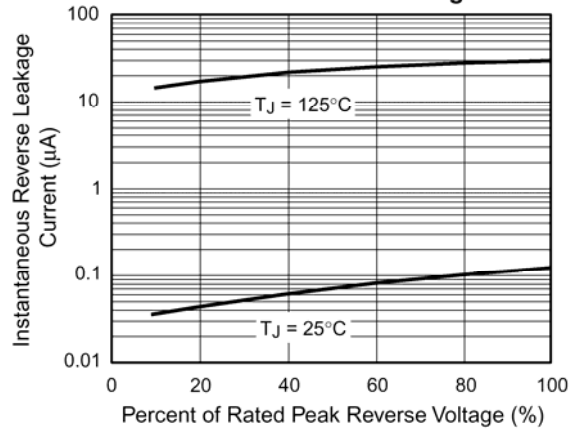
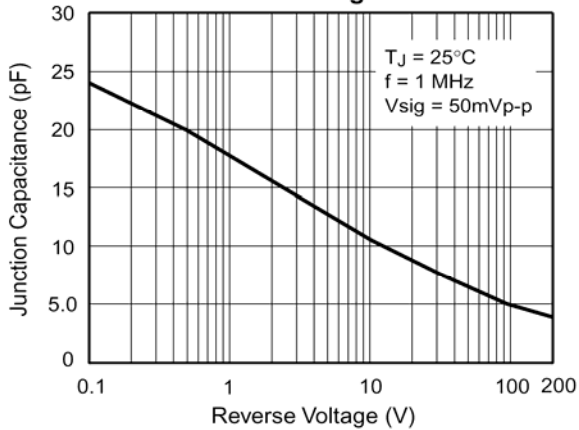
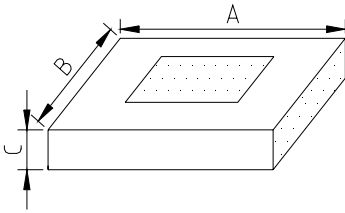


Fig. 5 - Typical Junction Capacitance Per Leg



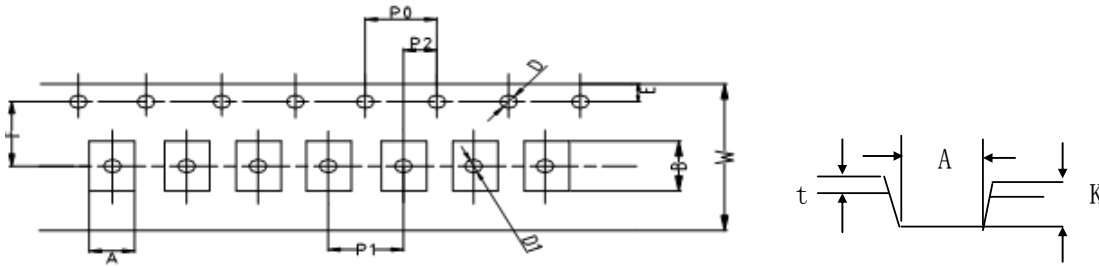
MD-S卷装及塑管装包装要求

1、卷装内盒规格



型号	A	B	C	数量
MD-S卷装	340mm	340mm	40mm	6K

2、载带尺寸



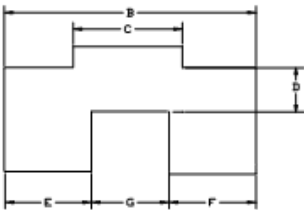
规格	E	F	P2	D	D1	P0
MD-S卷装	1.75±0.10	5.50±0.10	2.00±0.05	1.50±0.10	1.50±0.25	4.00±0.10
规格	W	P1	A	B	K	t
MD-S卷装	12.00±0.10	8.0±0.10	5.00±0.10	7.24±0.10	2.95±0.10	0.305±0.013

3、塑管规格及尺寸

3.1 塑管规格

型号	长	宽	高	数量
MD-S塑管装	482mm	8.5mm	7mm	100PCS

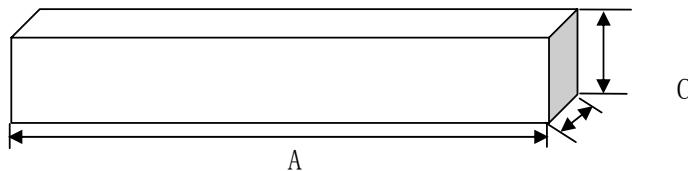
3.2 塑管尺寸



单位: mm

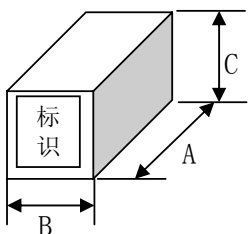
规格	A(长度)	B	C	D	E	F	G
MD-S塑管装	482±0.5	8.63±0.05	3.95±0.05	3.44±0.05	2.60±0.20	2.60±0.20	2.48±0.05

4、塑管装内盒规格



型号	A	B	C	数量
MD-S塑管装	486mm	140mm	65mm	6K

5、外箱规格



型号	A	B	C	内盒数量	外箱数量
MD-S卷装	350	350	245	6K	36K
MD-S塑管装	500	200	130	6K	24K