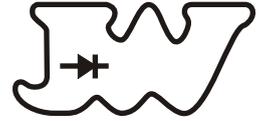


MB1S THRU MB7S

1.0 AMP MINI GLASS PASSIVATED BRIDGE RECTIFIER



FEATURES

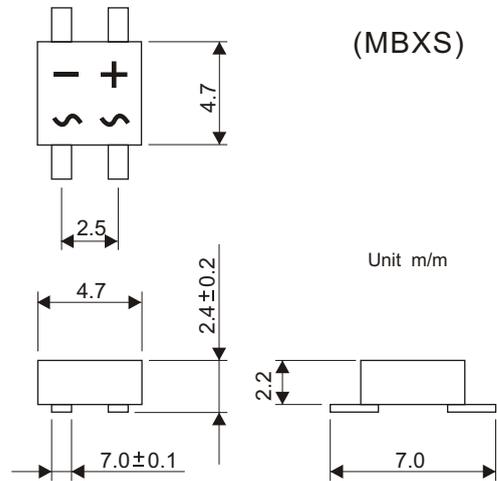
- * Plastic material used carries Underwriters
- * Laboratory recognition 94V-O.
- * Low leakage.
- * Surge overload rating-30 amperes peak.
- * Ideal for printed circuit board.

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

1.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	MB1S	MB2S	MB3S	MB4S	MB5S	MB6S	MB7S	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at TA = 40°C	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load	30							
I ² t Rating for fusing (t<8.35ms)	10							A ² s
Maximum Forward Voltage Dropper element at 0.5A peak	1.0							V
Maximum DC Reverse Current at rated Ta=25°C	5.0							mA
DC Blocking Voltage per element Ta=100°C	0.5							mA
Typical Junction Capacitance (Note2)CJ	25							pF
Typical Thermal Resistance per leg (Note 2) R JA	85							°C/W
Typical Thermal Resistance per leg (Note 2) R JL	20							°C/W
Operating Temperature Range Tj	-55 — +150							°C
Storage Temperature Range Tstg	-55 — +150							°C

RATING AND CHARACTERISTIC CURVES (MB6S)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

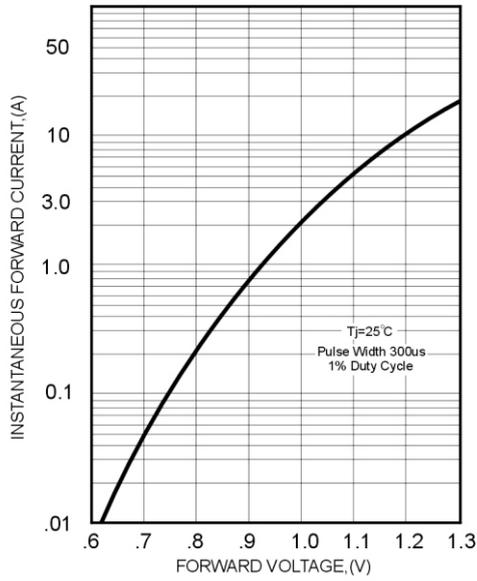


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

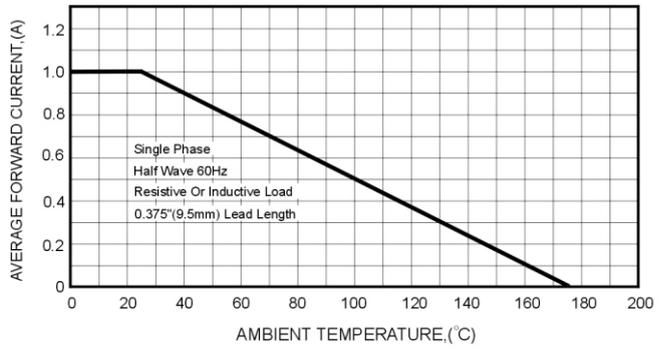


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

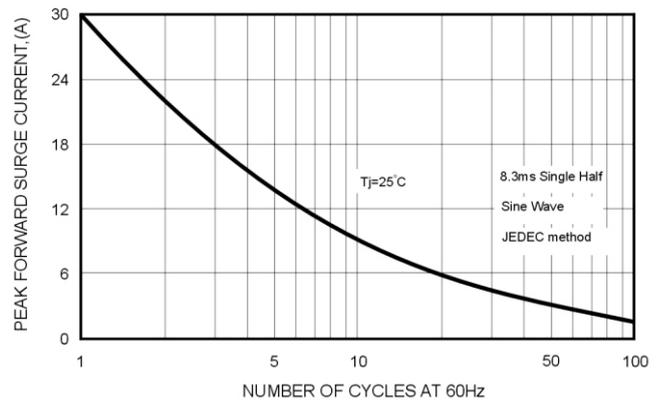


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

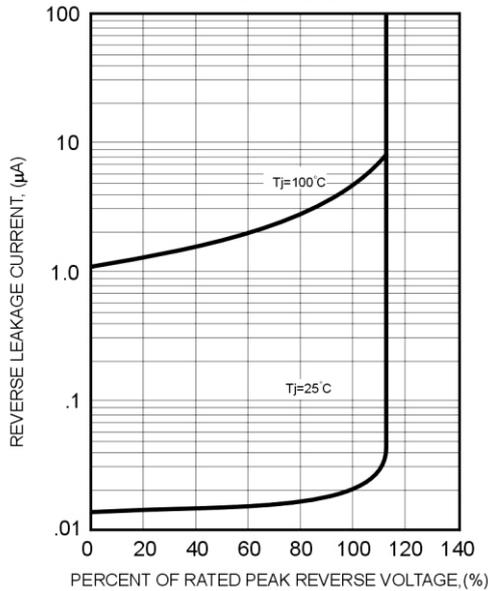


FIG.5-TYPICAL JUNCTION CAPACITANCE

