

MB2S THRU MB10S

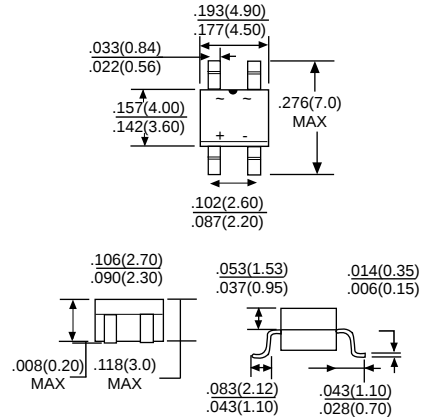
SINGLE PHASE 0.5 AMPS. GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range
200 to 1000 Volts
Current
0.5 Amperes

Features

- * Ideal for printed circuit board
Reliable low cost construction utilizing
molded plastic technique
- *High surge current capability
- *High temperature soldering guaranteed:
260°C / 10 seconds at 5 lbs.,(2.3kg)
tension
- *Small size, simple installation
- *Leads solderable per MIL-STD-202
Method 208

MBS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 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		MB2S	MB4S	MB6S	MB8S	MB10S	UNITS
		HD02	HD04	HD06	HD08	HD10	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _A = 30°C On glass-epoxy P.C.B. On aluminum substrate	I _{F(AV)}	0.5 0.8					A
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	35					A
Maximum Instantaneous Forward Voltage Drop Per Leg@0.4A	V _F	1.0					V
Maximum DC Reverse Current T _A = 25°C at Rated DC Blocking Voltage T _A = 100°C	I _R	5.0 100					uA A
Typical Junction Capacitance Per Leg (Note3)	C _J	15					pF
Typical Thermal Resistance Per Leg	R _{JA}	75					°C/W
Operating Temperature Range	T _J	-55 to +150					°C
Storage Temperature Range	T _{STG}	-55 to +150					°C

Note: 1. On glass epoxy P.C.B mounted on 0.05x 0.05"(1.3x1.3mm) pads
2. On aluminum substrate P.C.B with on area of 0.8"x 0.8"(20x20mm) mounted on
0.05x 0.05"(1.3x1.3mm) solder pad
3. Measured at 1.0MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES
MB2S THRU MB10S

