

MBS/YJ SERIES

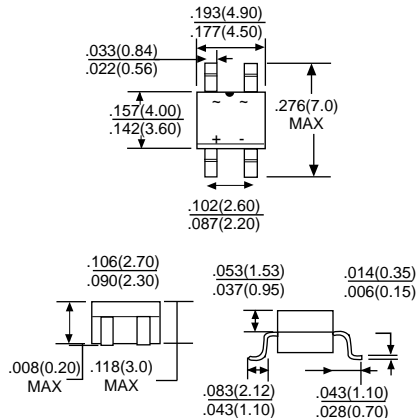
**SINGLE PHASE 0.5 AMPS.
GLASS PASSIVATED BRIDGE
RECTIFIERS**

**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



Dimensions in inches and (millimeters)

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
		YJ2J	YJ4J	YJ5J	YJ6J	YJ7J	
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 at Rated DC Blocking Voltage T _A = 25°C T _A = 100°C	I _R	5.0 100					uA uA
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

MBS/YJ SERIES(T_A=25°C unless atherwise noted)

FIG.1 - DERATING CURVE OUTPUT RECTIFIED CURRENT FOR

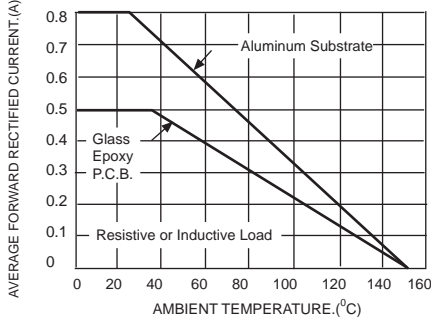


FIG.2-MAXIMUN NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

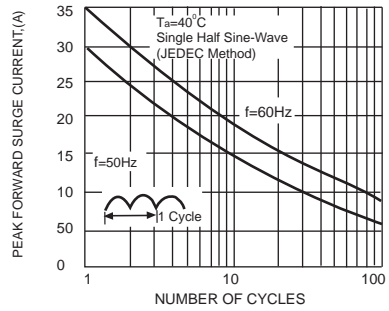


FIG.3 - TYPICAL FORWARD VOLTAGE CHARACTERISTICS PER LEG

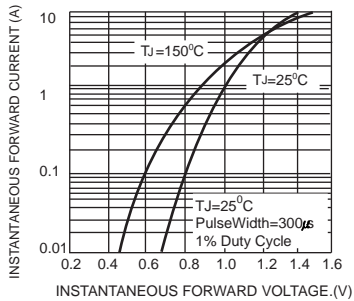


FIG.4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS PER LEG

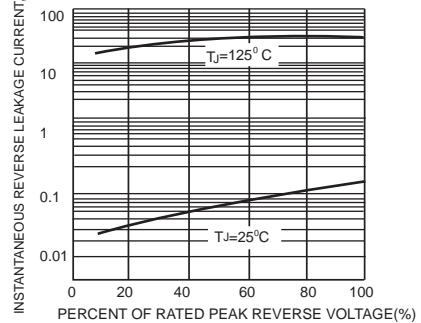


FIG.5-TYPICAL JUNCTION CAPACITANCE PER LEG

