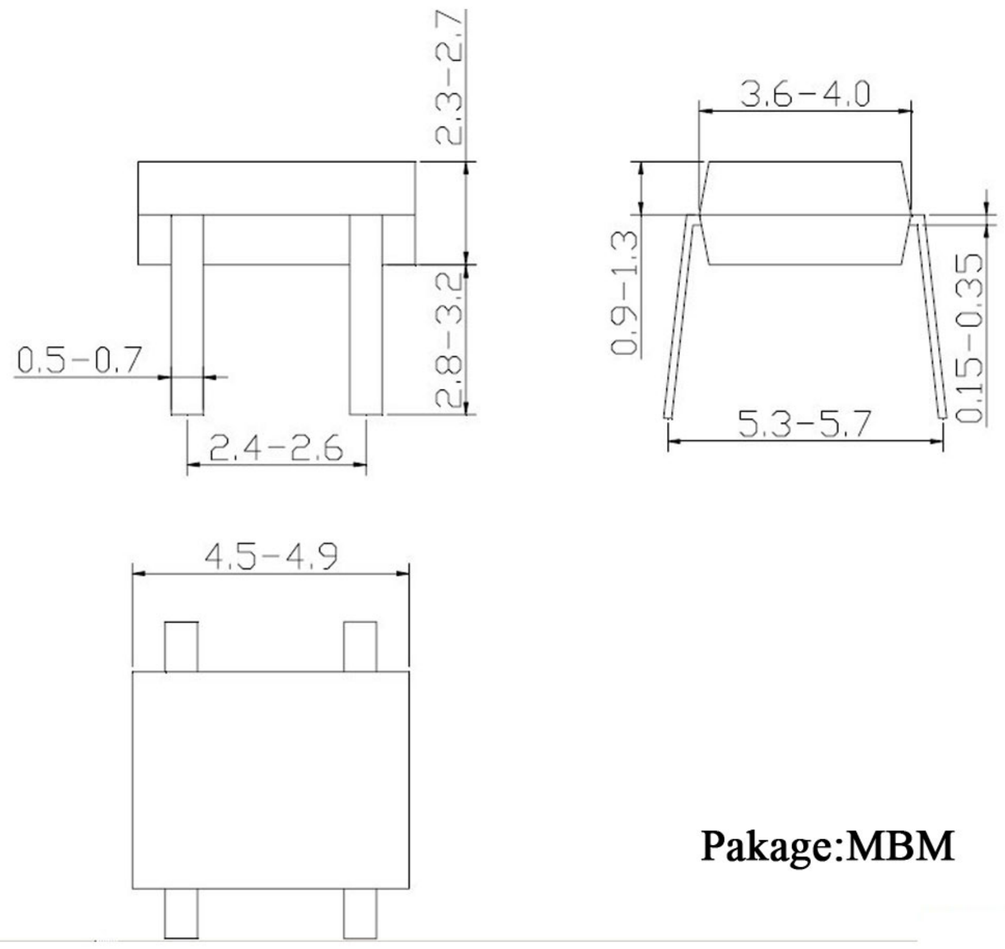
MB05M THRU MB10M

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE-50 TO 1000 Volts
FORWARD CURRENT-0.8Amperes

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0



Pakage:MBM

Dimensionsininches and(millimeters)

MECHANICAL DATA

- Polarit: As marked on Body
- Weight:0.0044 ounces,0.125 grams
- Mounting position: Any

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%

CHARACTERISTICS	SYMBOL	MB05M	MB1M	MB2M	MB4M	MB6M	MB8M	MB10M	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current（Note1) @T_A=40°C	$I_{(AV)}$	0.8							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method）	I_{FSM}	40							A
Peak Forward Voltage at 0.8A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J=25°C at Rated DC Bolcking Voltage @T_J=125°C	I_R	5.0 500							μA
Typical Junction Capacitance Per Element(Note2)	C_J	15							pF
Typical Thermal Resistance(Note3)	$R_{\theta JC}$	75							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:1.Mounted on P.C.board
2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3.Thermal resistance junction to ambient.

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GLASS PASSIVATED BRIDGE RECTIFERS
RATING AND CHARACTERTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

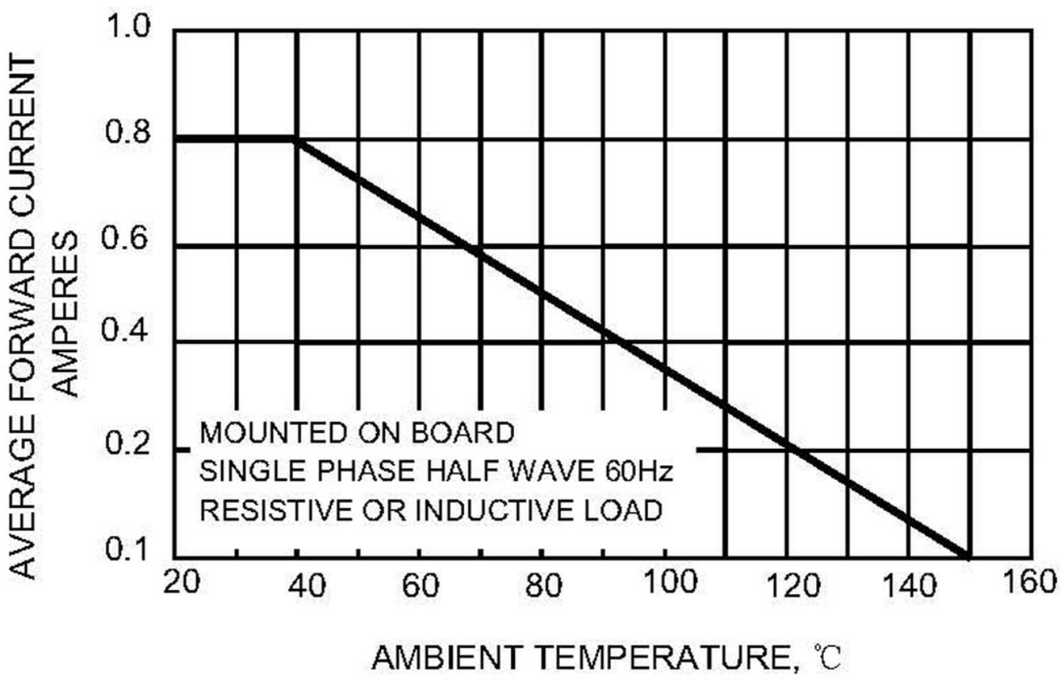

FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

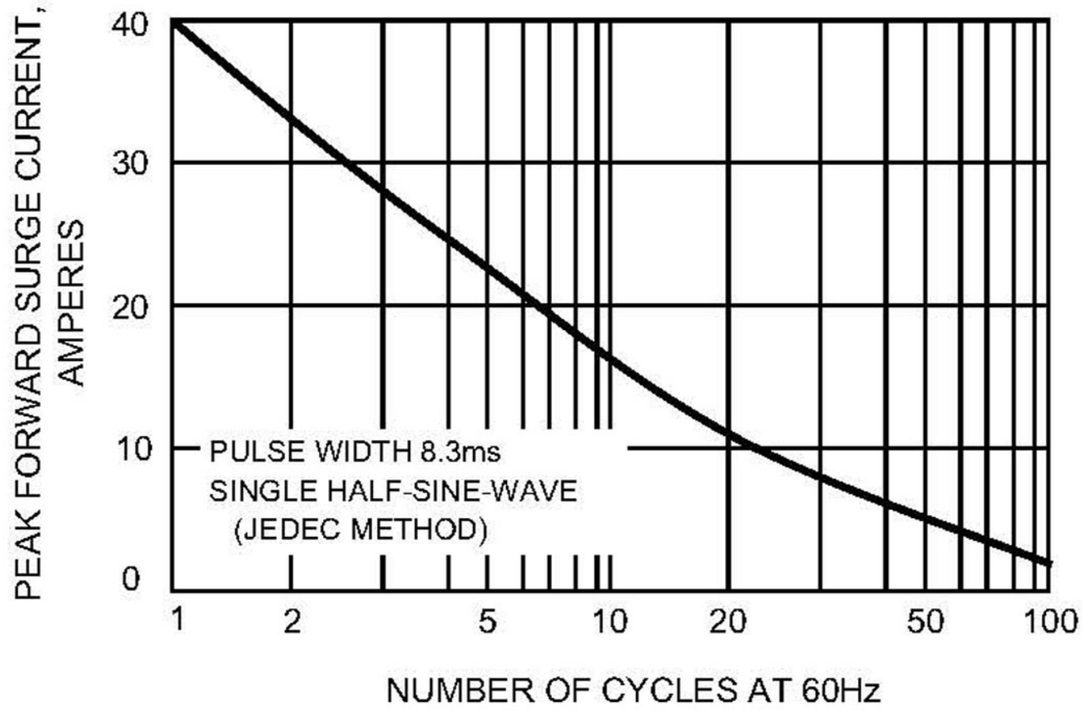

FIG.3-TYPICAL REVERSE CHARACTERISTICS

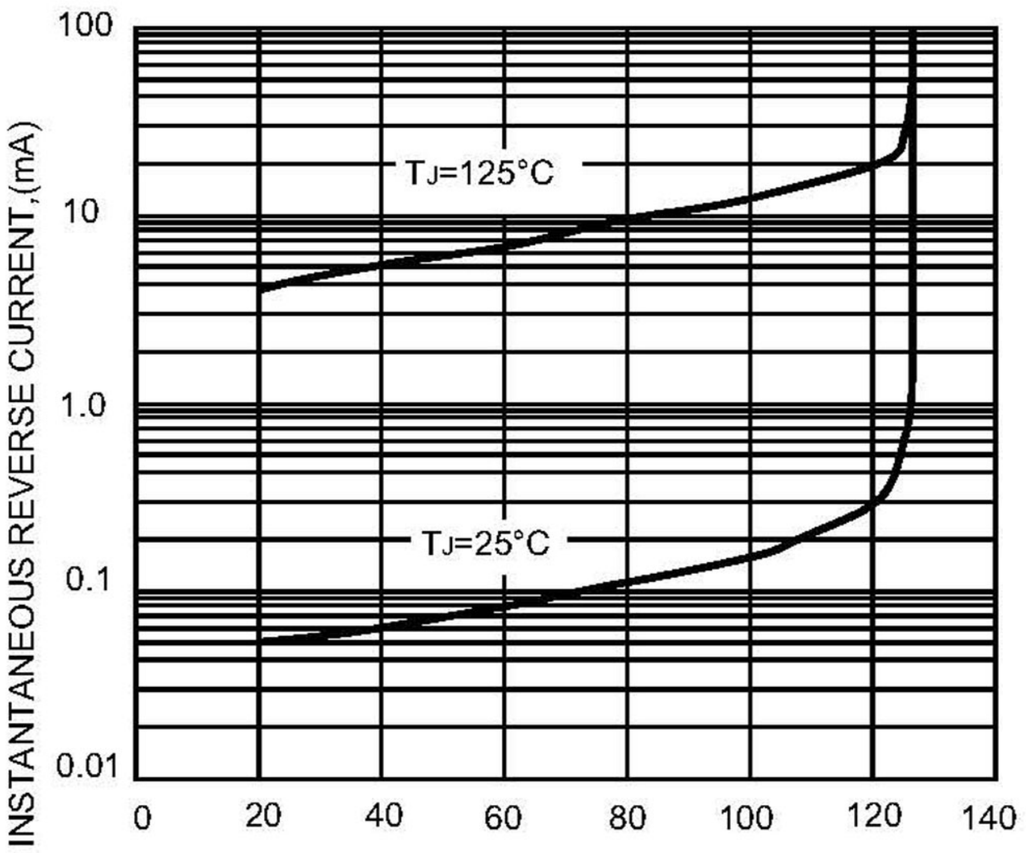

FIG.4-TYPICAL FORWARD CHARACTERISTICS

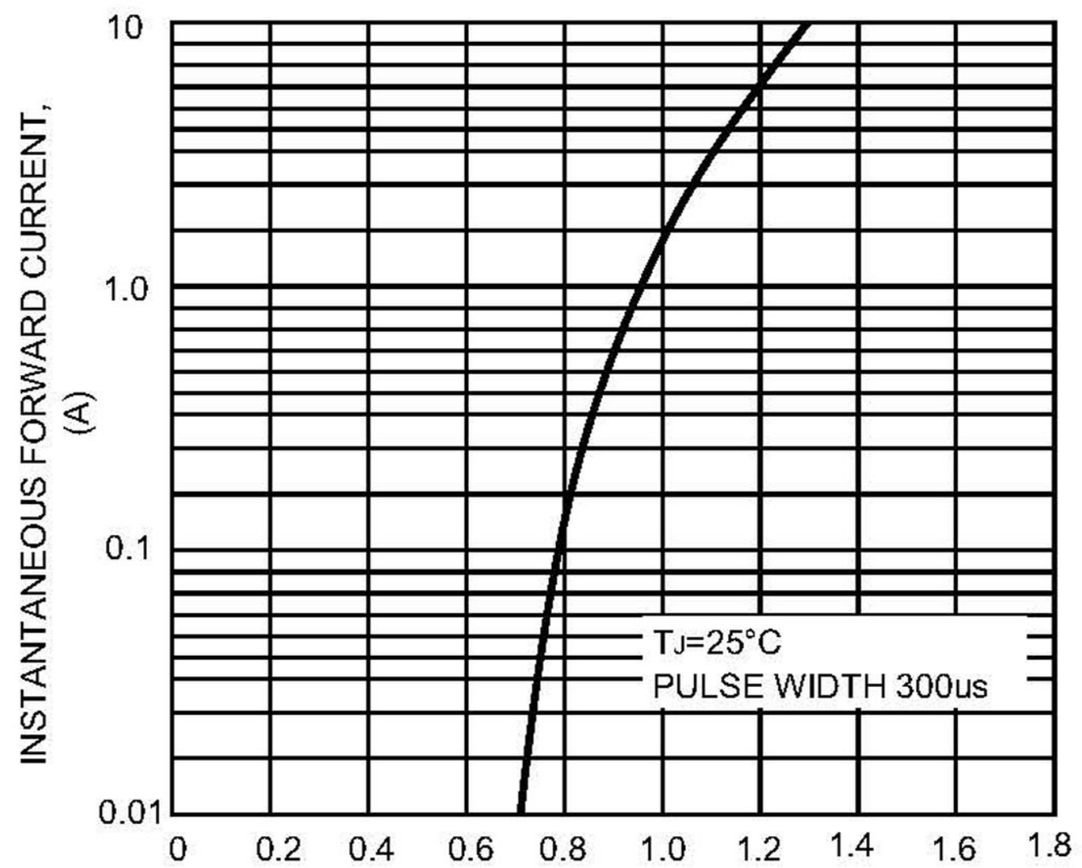

FIG.5-TYPICAL JUNCTION CAPACITANCE