Surface Mount Glass Passivated Bridge Rectifiers

COMCHIP
SMD DIODE SPECIALIST

B05S-G thru B10S-G

"-G" : RoHS Device

REVERSE VOLTAGE **- 50** to **1000** Volts
FORWARD CURRENT **- 0.8** Amperes

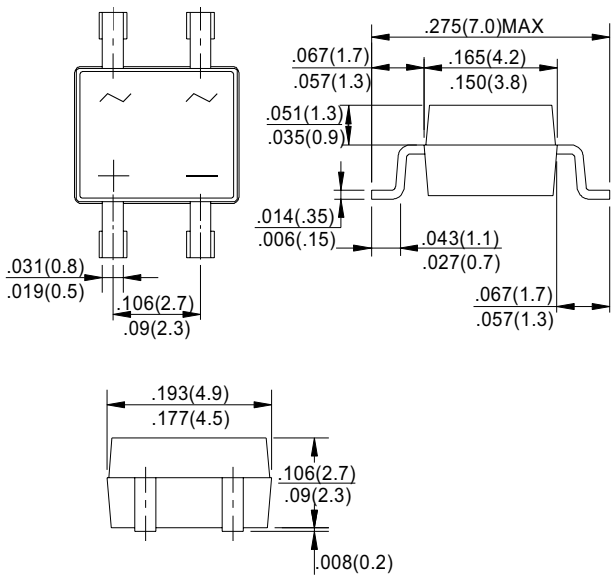
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper

MECHANICAL DATA

- Polarity:Symbol molded on body
- Weight: 0.0044 ounces,0.125 grams
- Mounting position :Any

MBS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	B05S	B1S	B2S	B4S	B6S	B8S	B10S	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 (Note 1) @T_A=40 ℃	$I_{(AV)}$	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℃ at Rated DC Bolcking Voltage @T_J=125℃	I_R	5.0 500							μA
Tyical Junction Capacitance Per Element (Note2)	C_J	15							pF
Tyical Thermal Resistance (Note3)	$R_{\theta JC}$	75							℃/W
Operating Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

NOTES:1.Mounted on P.C. board.

2.Measured at1.0MHz and applied reverse voltage of 4.0V DC.

3.Thermal resistance junction to ambient.

RATINGS AND CHARACTERISTIC CURVES B05S-G thru B10S-G

FIG.1-FORWARD CURRENT DERATING CURVE

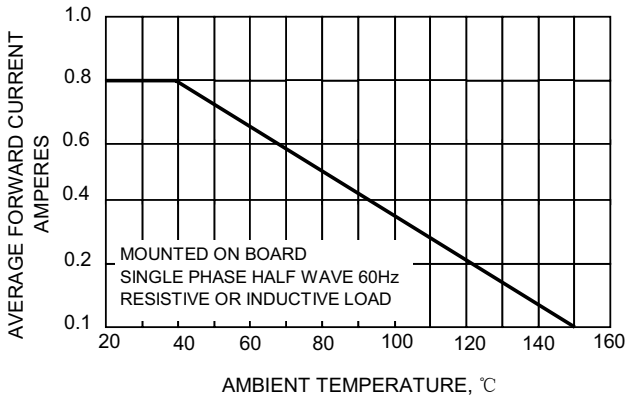


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

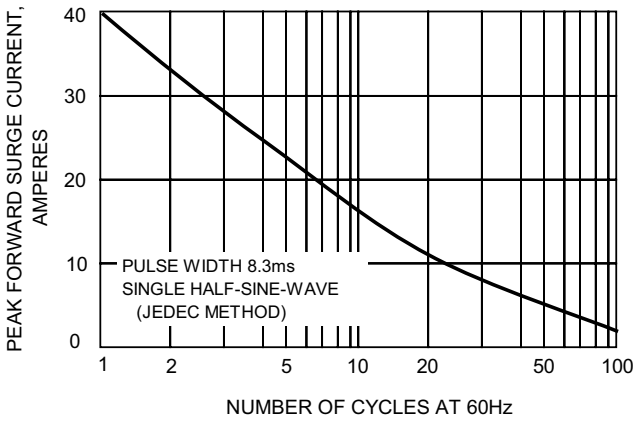


FIG.3-TYPICAL REVERSE CHARACTERISTICS

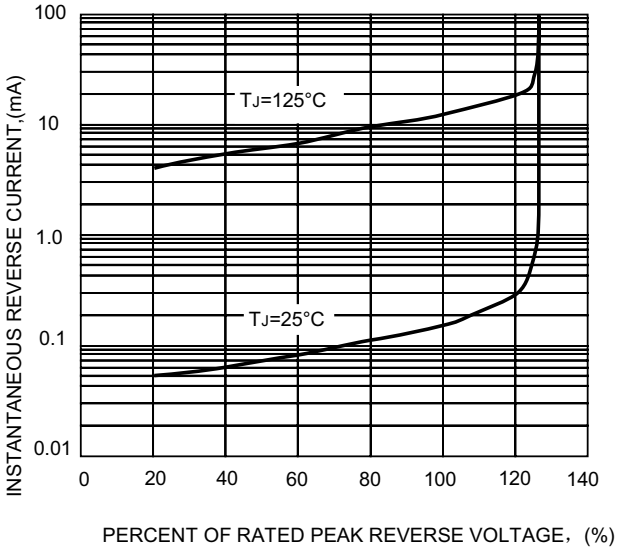


FIG.4-TYPICAL FORWARD CHARACTERISTICS

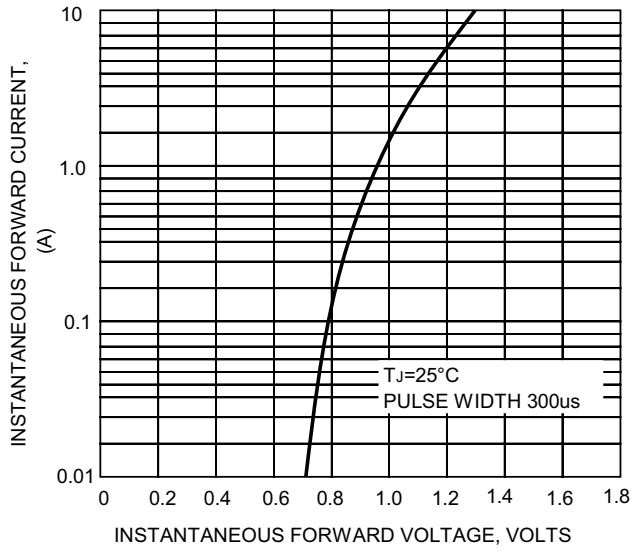


FIG.5-TYPICAL JUNCTION CAPACITANCE