

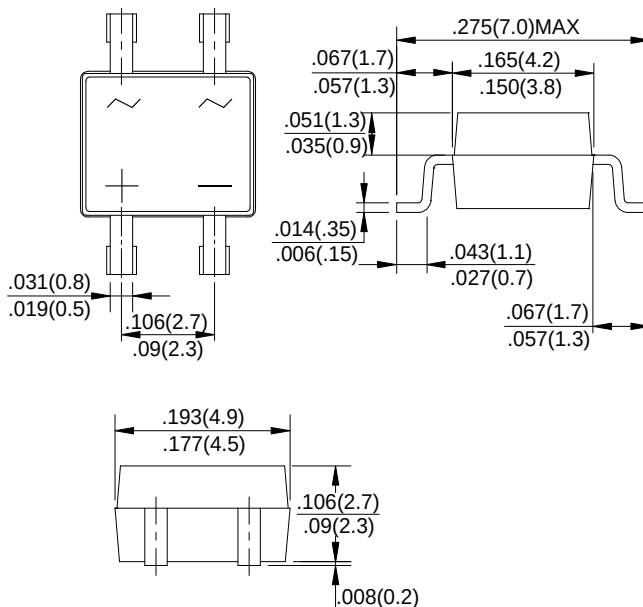
GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE **600** Volts
FORWARD CURRENT **-0.8** Amperes

FEATURES

- Surge overload rating - 150 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any

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%

CHARACTERISTICS	SYMBOL	MB6S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	600	V
Maximum RMS Voltage	V _{RMS}	420	V
Maximum DC Blocking Voltage	V _{DC}	600	V
Maximum Average Forward Rectified Current (Note 1) @T _A =40 °C	I _(AV)	0.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30	A
Peak Forward Voltage at 0.4A 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	5 500	uA
Tyical Junction Capacitance Per Element (Note2)	C _J	15	pF
Tyical Thermal Resistance (Note3)	R _{θJC}	75	°C/W
Operating Temperature Range	T _J	-55to+150	°C
Storage Temperature Range	T _{STG}	-55to+150	°C

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.

RATING AND CHARACTERISTIC CURVES

MB6S

FIG.1-FORWARD CURRENT DERATING CURVE

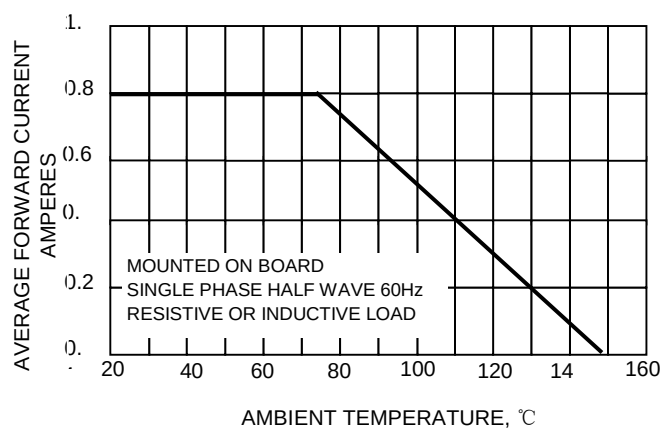


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

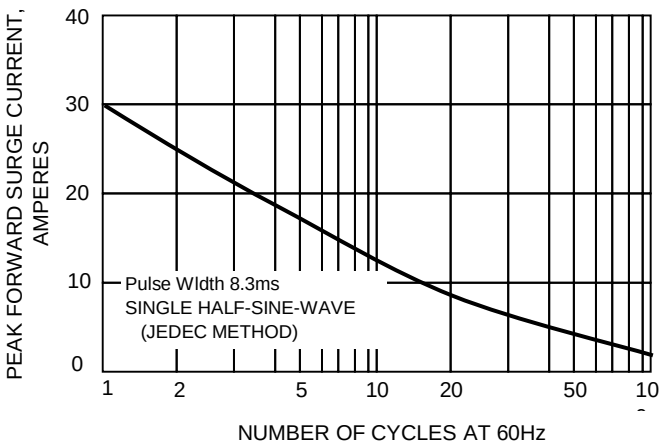


FIG.3-TYPICAL REVERSE CHARACTERISTICS

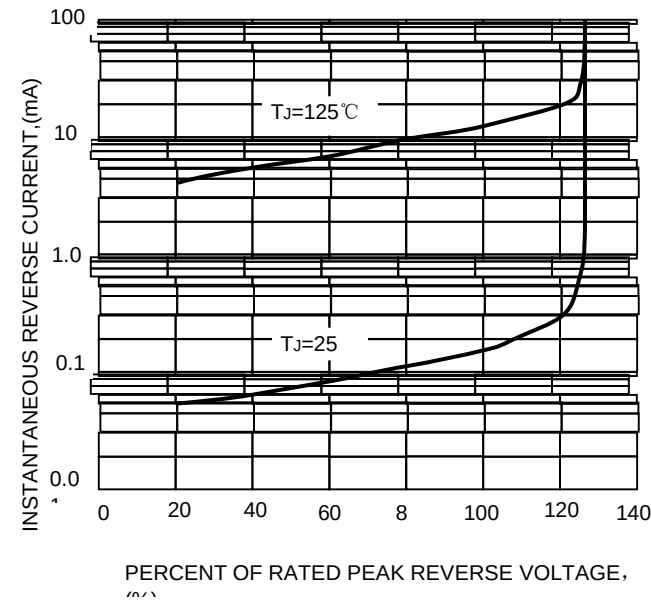


FIG.4-TYPICAL FORWARD CHARACTERISTICS

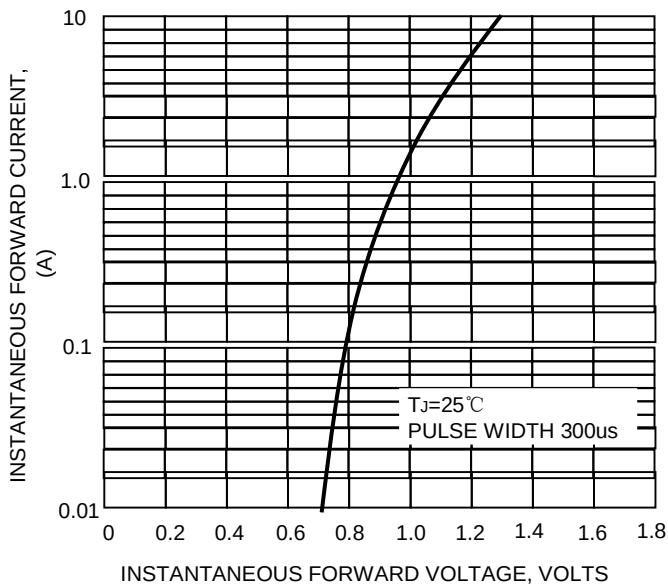
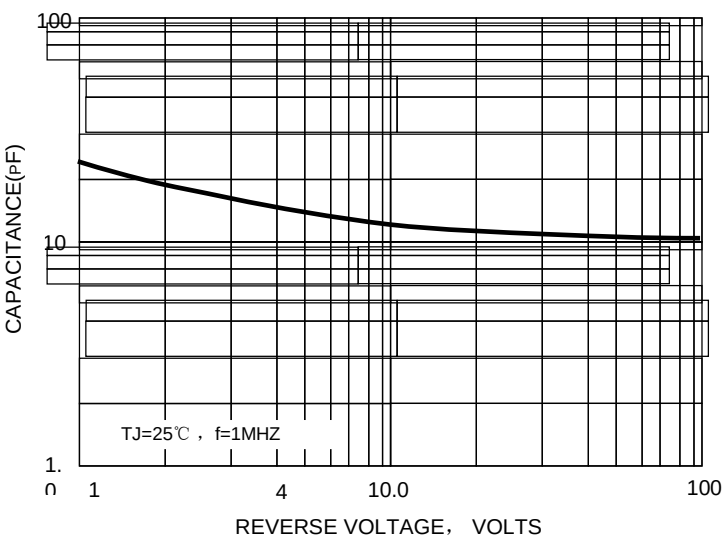


FIG.5-TYPICAL JUNCTION CAPACITANCE



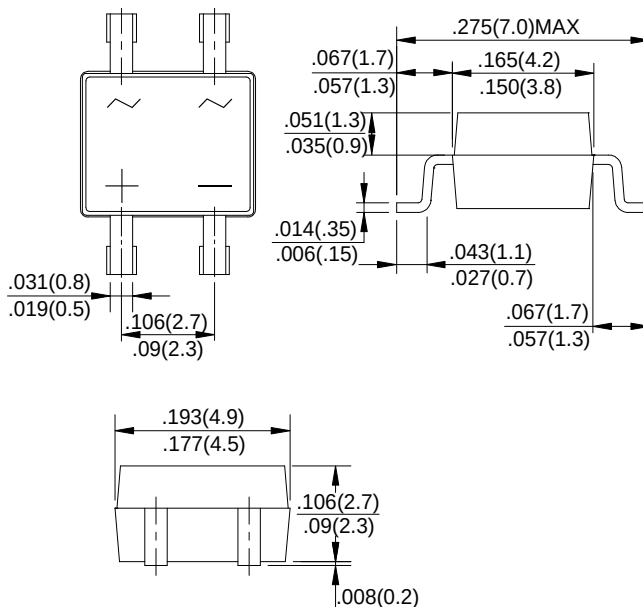
GLASS PASSIVATED BRIDGE RECTIFIERS

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

FEATURES

- Surge overload rating - 150 amperes peak
- Ideal for printed circuit board
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position: Any

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%

CHARACTERISTICS	SYMBOL	MB10S	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS Voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Maximum Average Forward Rectified Current (Note 1) @T _A =40 °C	I _(AV)	0.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	30	A
Peak Forward Voltage at 0.4A 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	5 500	uA
Tyical Junction Capacitance Per Element (Note2)	C _J	15	pF
Tyical Thermal Resistance (Note3)	R _{θJC}	75	°C/W
Operating Temperature Range	T _J	-55to+150	°C
Storage Temperature Range	T _{STG}	-55to+150	°C

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.

RATING AND CHARACTERISTIC CURVES
MB10S

FIG.1-FORWARD CURRENT DERATING CURVE

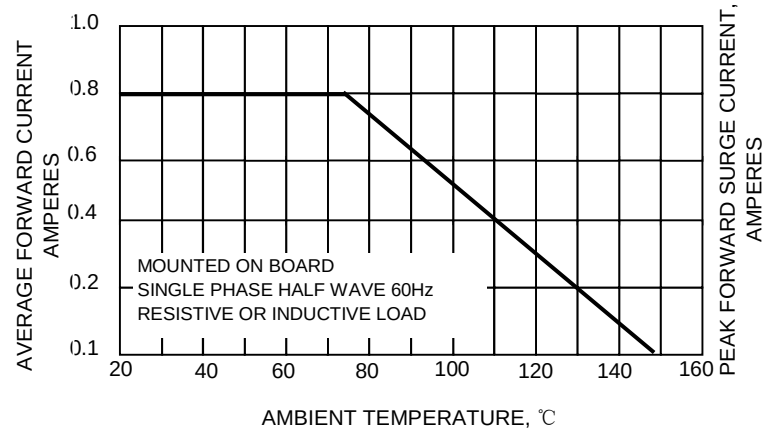


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

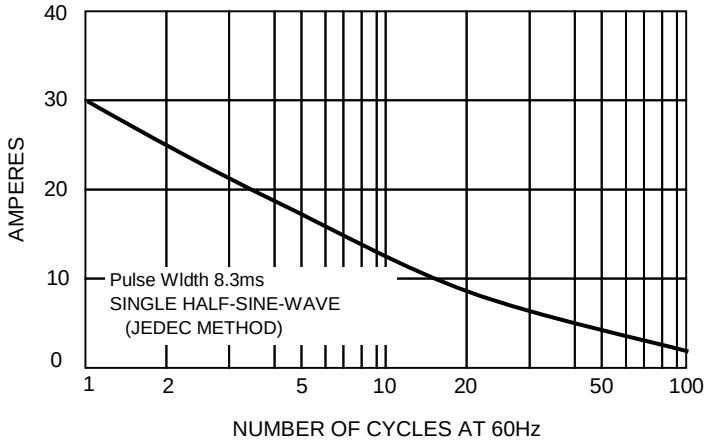


FIG.3-TYPICAL REVERSE CHARACTERISTICS

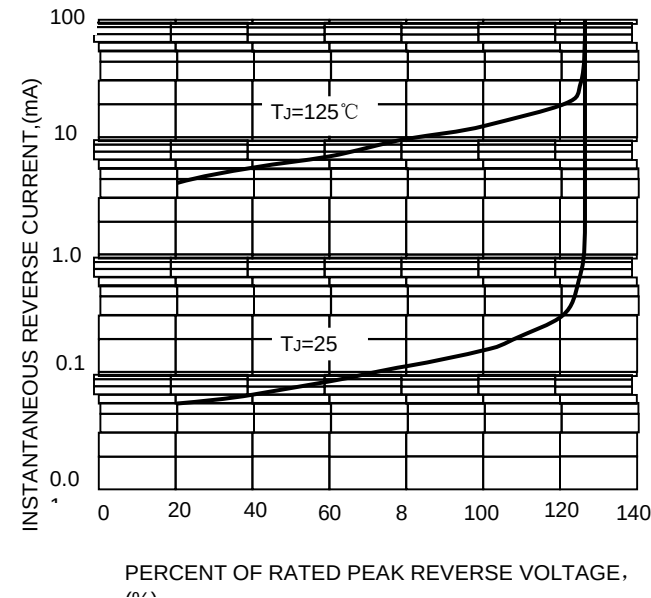


FIG.4-TYPICAL FORWARD CHARACTERISTICS

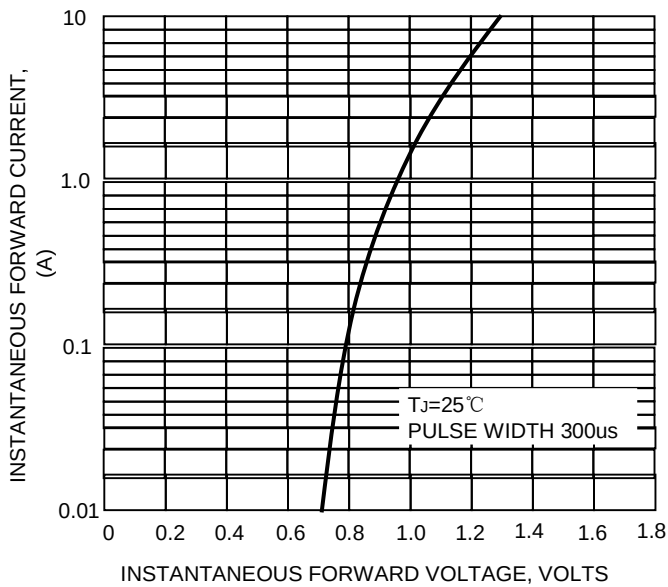


FIG.5-TYPICAL JUNCTION CAPACITANCE

