EVVOSEMI®
THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

Domestic Part Number	MB6S
Overseas Part Number	MB6S
Equivalent Part Number	MB6S

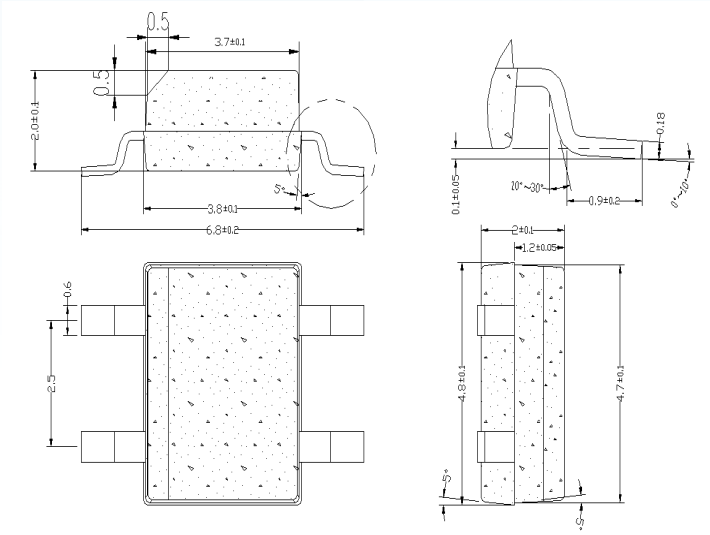
SINGLE PHASE GLASS PASSIVATED
SURFACE MOUNT BRIDGE RECTIFIERS

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

Features

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- Small size, simple installation
  Pure tin plated terminal , Lead free. Leads solderable per MIL-STD-202, Method 208
- High surge current capability

MBS



Dimensions in 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	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 on glass-epoxy P.C.B	I(AV)	0.5	A
on aluminum substrate		0.8	
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	30	A
Peak Forward Voltage at 0.5A	V_F	1.1	V
Maximum DC Reverse Current @TJ=25℃	I_R	5	uA
at Rated DC Bolcking Voltage @TJ=125℃		100	
Tyical Thermal Resistance junction to lead	Rth(jl)	25	℃/W
Tyical Thermal Resistance on aluminum substrate	Rth(ja)	62.5	
Tyical Thermal Resistance on glass-epoxy P.C.B		80	
Operating Temperature Range	T_J	-55to+150	℃
Storage Temperature Range	T_{STG}	-55to+150	℃

RATING AND CHARACTERTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

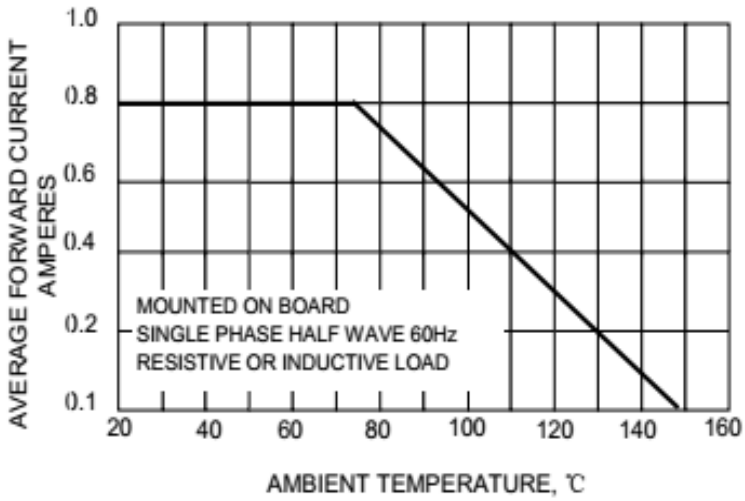


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

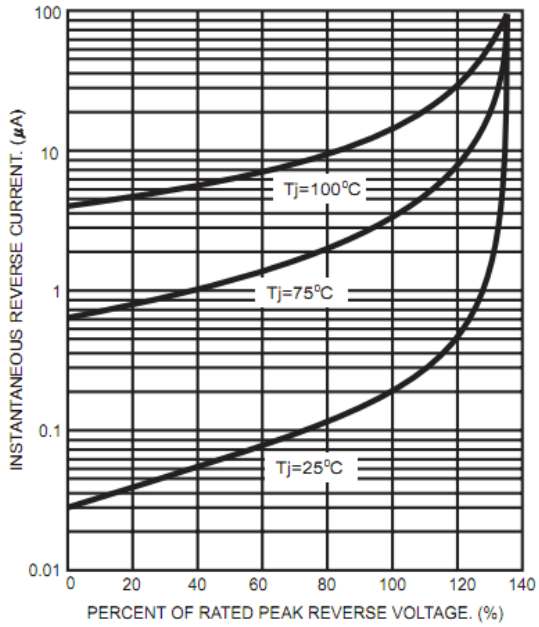


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

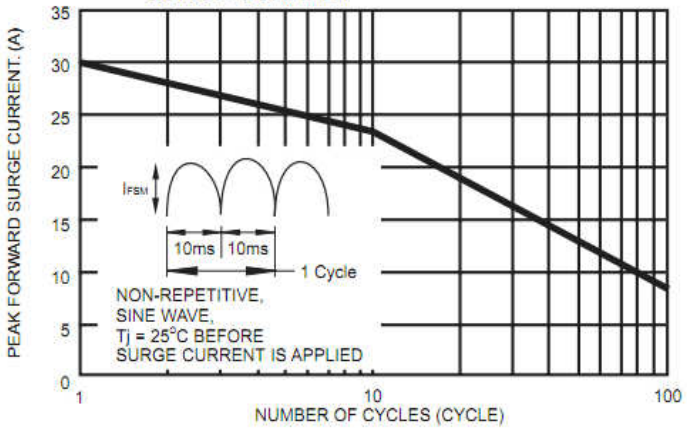


FIG.4- TYPICAL JUNCTION CAPACITANCE

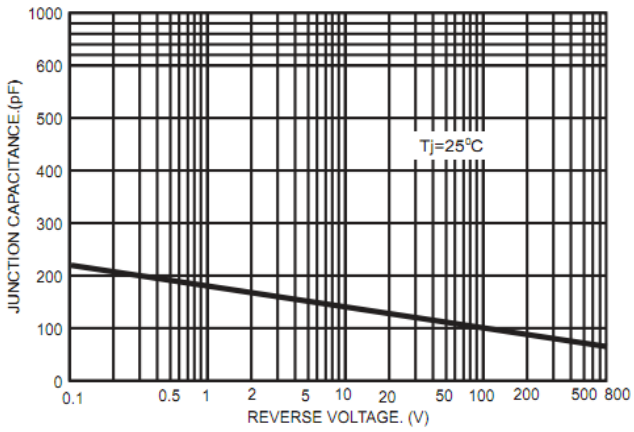
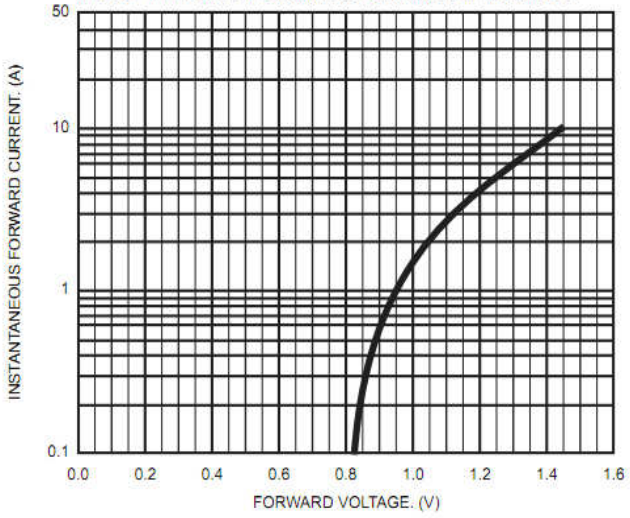


FIG.5- TYPICAL FORWARD CHARACTERISTICS



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