Miniature Glass Passivated Single Phase Surface Mount Bridge Rectifier

Reverse Voltage - 600 V

Forward Current - 0.5 A

Features

- Surge overload rating: 30 amperes peak
- · Ideal for printed circuit board
- Low leakage
- Reliable low cost construction utilizing molded
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O

Mechanical Data

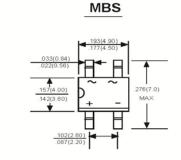
• Case: MBS, molded plastic.

• Terminals: Leads solderable per MIL-STD-202,

method 208.

• Mounting position: Any.

• Weight: 0.008 ounce, 0.22 grams.





Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	MB6S	Units
	Marking	MB6S	-
Maximum Repetitive 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 See Fig .1 On glass epoxy P.C.B ²⁾ On aluminum substrate ³⁾	I _{F(AV)}	0.5 0.8	А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30	Α
Maximum Instantaneous Forward Voltage at 0.4 A	V _F	1	V
	I _R	5 100	μΑ
Typical Junction Capacitance 1)	CJ	15	pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	75	°C/W
Operating Junction and Storage Temperature Range	T_J,T_stg	- 55 to + 150	°C

 $^{^{1)}}$ Measured at 1 MH_z and applied V_r = 4volts.







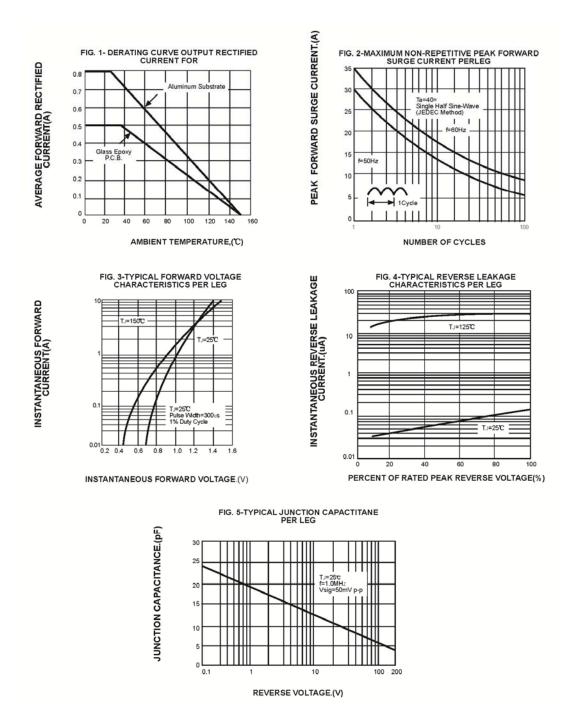




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 $^{^{2)}}$ On glass epoxy P.C.B. mounted on 0.05 x 0.05" (1.3 x 1.3 mm) pads.

³⁾ On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad.













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