MB6S

Miniature Glass Passivated Single Phase Surface Mount Bridge Rectifier Reverse Voltage – 600 V Forward Current – 0.5 A MBS

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.

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	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30	А
Maximum Instantaneous Forward Voltage at 0.4 A	VF	1	V
	I _R	5 100	μΑ
Typical Junction Capacitance ¹⁾	CJ	15	pF
Typical Thermal Resistance ²⁾	R _{0JA}	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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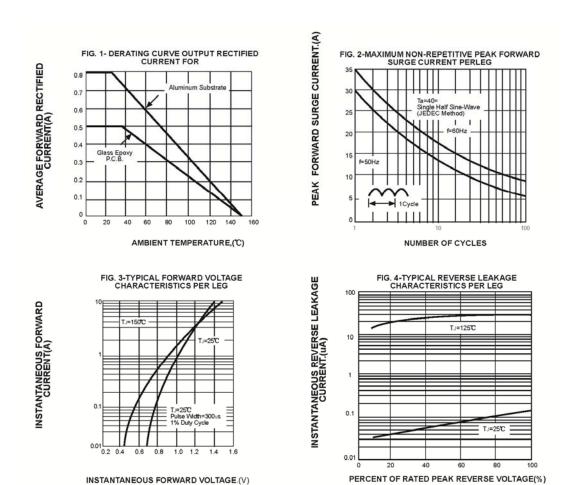
Dimensions in inches and (millimeters)



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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.

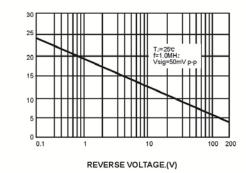
³⁾ On aluminum substrate P.C.B. with an area of 0.8 x 0.8" (20 x 20mm) mounted on 0.05 x 0.05" (1.3 x 1.3mm) solder pad.



INSTANTANEOUS FORWARD VOLTAGE.(V)

JUNCTION CAPACITANCE.(pF)







SEMTECH ELECTRONICS LTD.



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