

B1S-B10S

PRV : 100 - 1000 Volts

I_o : 0.5 Ampere

Features

- Glass passivated chip junctions.
- High surge overload rating : 35A peak
- Saves space on printed circuit boards.
- High temperature soldering guaranteed : 260 oC/10 seconds.
- RoHS compliant package

Mechanical Data

- Epoxy : UL94V-O rate flame retardant
- Terminals : Plated Lead solderable per MIL-STD-750, Method 2026

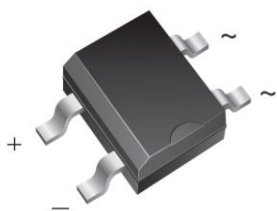
Method 2026

- Polarity : Polarity symbols marked on body
- Mounting position : Any
- Weight : 0.02 ounce, 0.4 gram

Package type : MBS

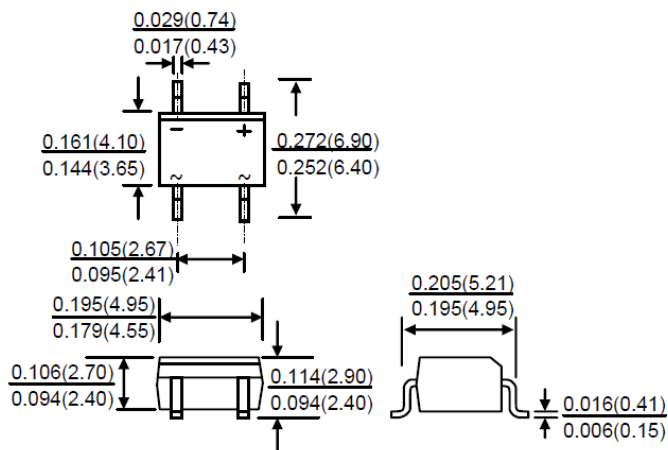
Packing & Order Information

3,000/Reel



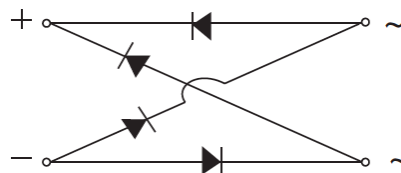
**RoHS
COMPLIANT**

MBS (TO-269AA)



Dimensions in inches and (millimeters)

Graphic symbol



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified
60 Hz, resistive or inductive load

Rating	Symbol	B1S	B2S	B4S	B6S	B8S	B10S	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Output Rectified Current (See Fig.1)	I _{F(AV)}	0.5 ⁽¹⁾ (on glass-epoxy P.C.B.) 0.8 ⁽²⁾ (on aliminum substrate)						A
Maximum Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	35						A
Maximum Instantaneous Forward Voltage per element at I _F = 0.4 A	V _F	1.0						A

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Rating for fusing (t < 8.3 ms.)	I ² t	5.0						A ² S
Maximum DC Reverse Current Ta = 25°C	I _R	5.0						μA
at Rated DC Blocking Voltage Ta = 125°C	I _{R(H)}	100						μA
Typical Junction capacitance per element	C _J	13						pF
Typical Thermal Resistance	R _{θJA}	85						°C/W
Junction and storage temperature range	T _J , T _{STG}	-55 to +150						°C

Notes

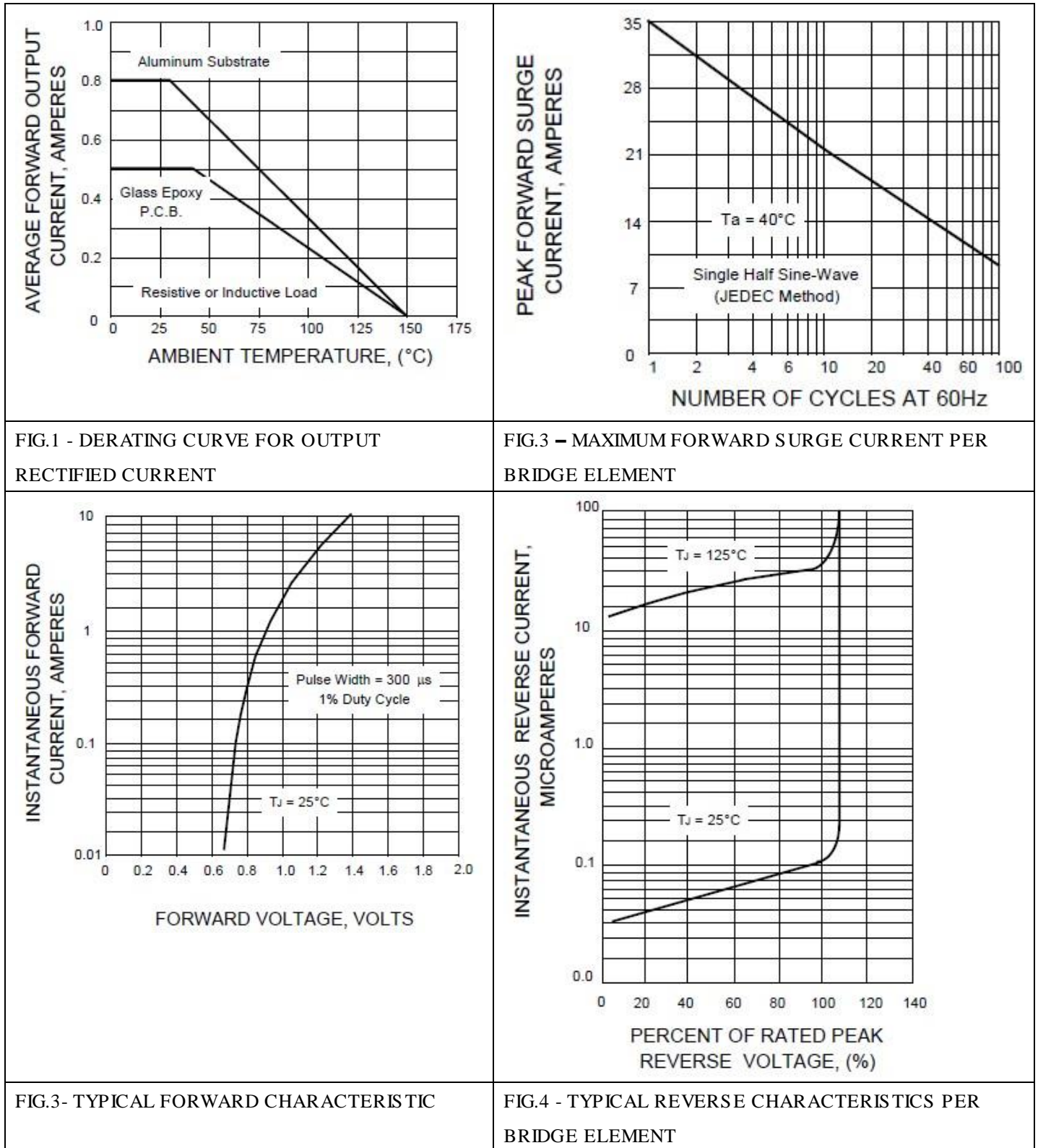
- (1) On glass epoxy P.C Board mounted on 0.5" x 0.5" (13mm x 13mm) Pads.
- (2) On aluminum substrate P.C.B. with an area 0.8" x 0.8" (20mm x 20mm) mounted on 0.5" x 0.5" (13mm x 13mm) Pads.
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

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■ RATING AND CHARACTERISTIC CURVES (B1S - B10S)



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