YENYO

B1S THRU B10S

Surface Mount Bridge Rectifier

Voltage Range 100 to 1000 V
Current 0.5 Ampere

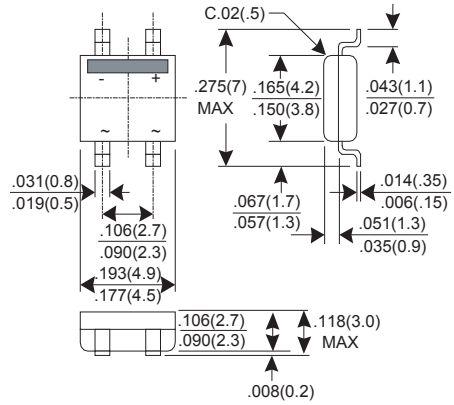
Features

- ✶ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ✶ High surge current capability
- ✶ Saves space on printed circuit boards
- ✶ Glass passivated structure

Mechanical Data

- ✶ Case: Molded plastic body over passivated junctions
- ✶ Terminals: Solderable per MIL-STD-750, method 2026
- ✶ Polarity: As marked on body
- ✶ Mounting position: Any
- ✶ Weight: 0.122 gram

MINI-DIP



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%.

CHARACTERISTIC	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 Rectified Current T_A=40°C	$I_{(AV)}$	0.5						A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30						A
Maximum Instantaneous Forward Voltage @ 0.5 A	V_F	1.0						V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=125°C	I_R	5.0 250						uA uA
Rating for fusing (t < 8.3ms)	I^2t	5						A^2S
Typical junction Capacitance (Note 1)	C_J	25						pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	85						°C/W
Operating Junctionand Storage Temperature Range	T_J, T_{STG}	-55 to + 150						°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.
(2) Thermal Resistance form junction to ambient mounted on P.C.B with 0.5 x 0.5"(13x13mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES B1S THRU B10S

FIG.1 - FORWARD CURRENT DERATING CURVE

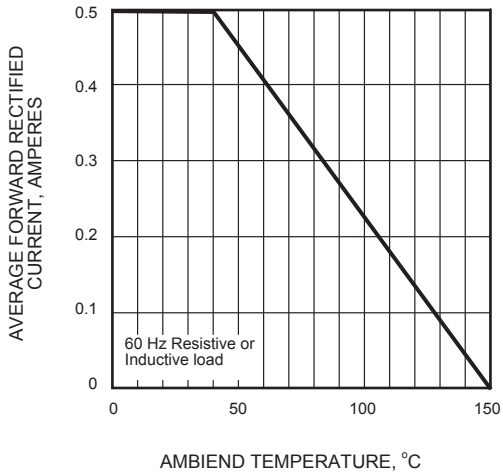


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

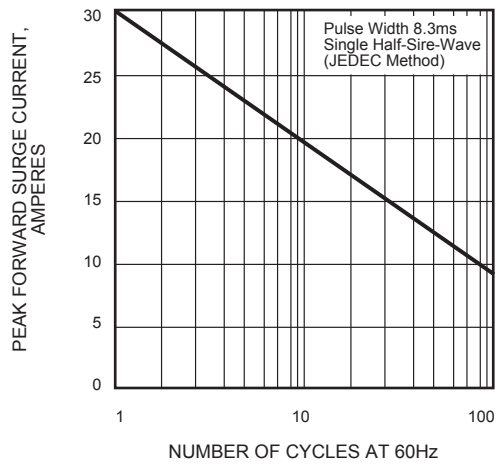


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

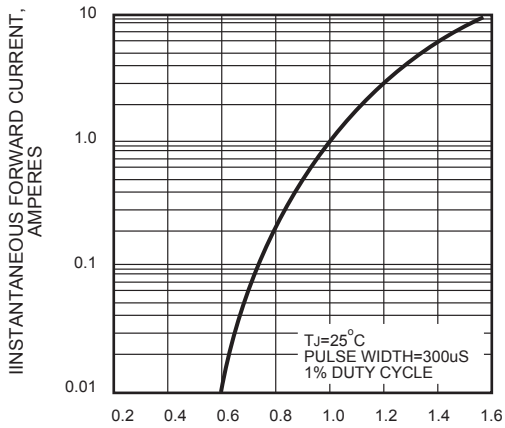


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

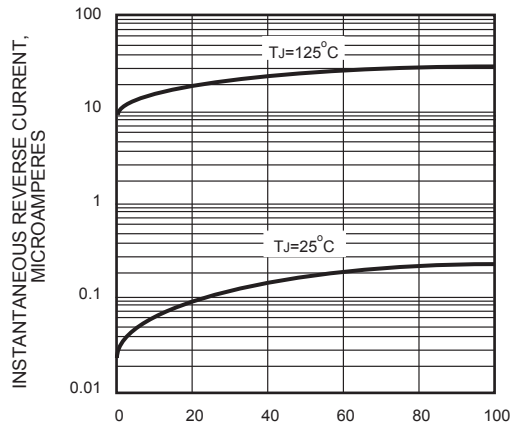
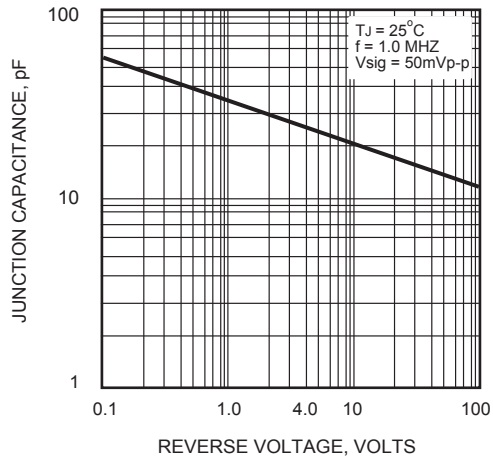


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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