

Single Phase Bridge Rectifier



Features:

- Rating to 1,000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper

Specifications:

Reverse Voltage : 50V to 1,000V
Forward Current : 0.8 Ampere
Polarity : Symbol molded on body
Mounting position : Any

Max. Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

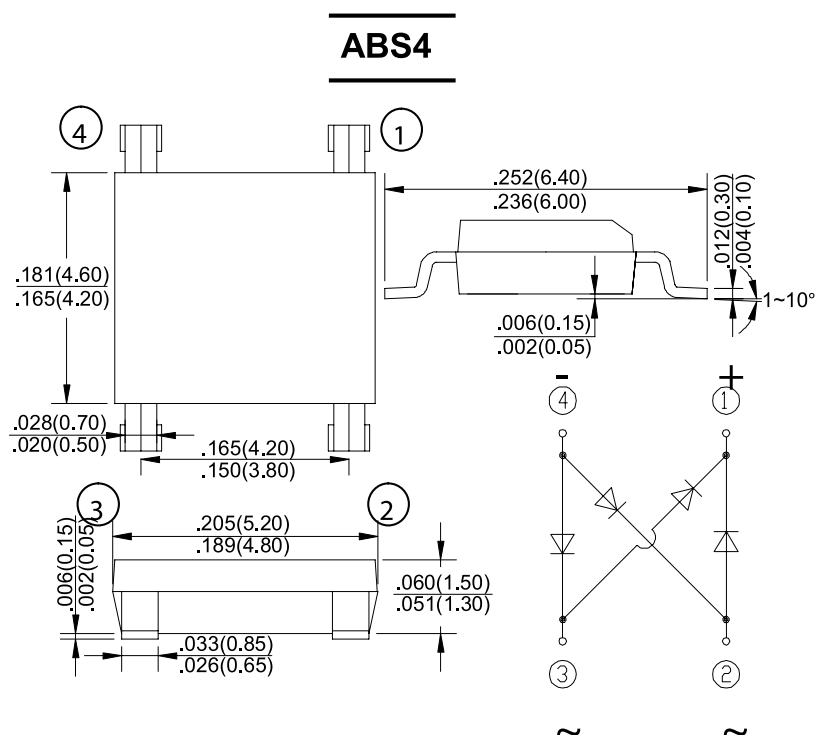
For capacitive load, derate current by 20%

Characteristics	Symbol	ABS4	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS Voltage	V_{RMS}	280	
Maximum DC Blocking Voltage	V_{DC}	400	
Maximum Average Forward Rectified Current (Note 1) @ $T_A = 40^\circ C$	$I_{(AV)}$	0.8	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	30	A
Peak Forward Voltage at 0.8A DC	V_F	1.1	V
Maximum DC Reverse Current @ $T_j = 25^\circ C$ at Rated DC Blocking Voltage @ $T_j = 125^\circ C$	I_R	5.0 500	μA
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	80	$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ C$

Notes: 1. Mounted on P.C. board.
2. Thermal resistance junction to ambient.

Single Phase Bridge Rectifier

Dimensions:



Dimensions : Inches (Millimetres)

FIG.1-FORWARD CURRENT DERATING CURVE

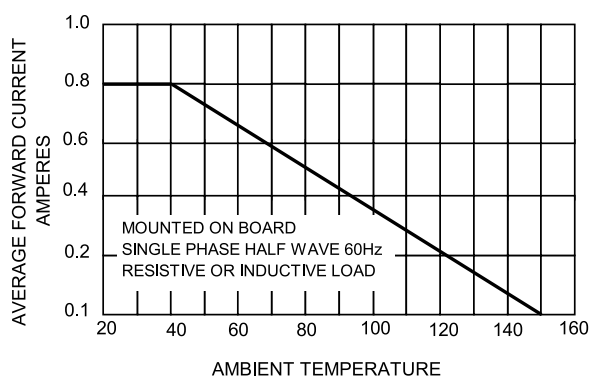
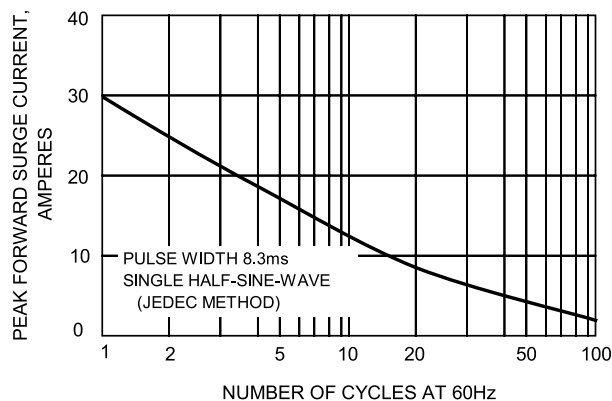


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT



Single Phase Bridge Rectifier

FIG.3-TYPICAL REVERSE CHARACTERISTICS

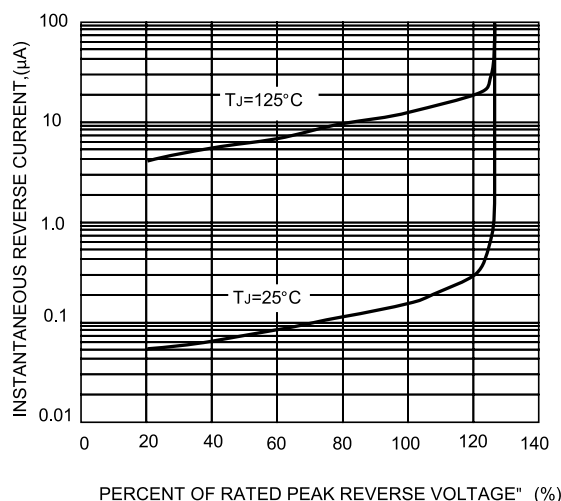
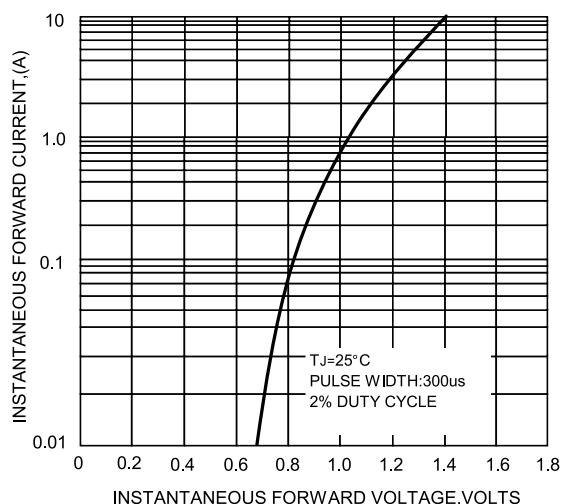


FIG.4-TYPICAL FORWARD CHARACTERISTICS



Part Number Table

Description	Part Number
Bridge Rectifier, Single Phase, 1A, 400V, ABS	ABS4

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