ABS05 THRU ABS10

Surface Mount Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 0.8 Amperes

Features

- Glass passivated chip
- Ideal for automatic placement
- High surge forward current capability
- Reliable low cost construction utilizing molded plastic technique
- Lead tin plated copper
- •Meet UL flammability classification 94V-0

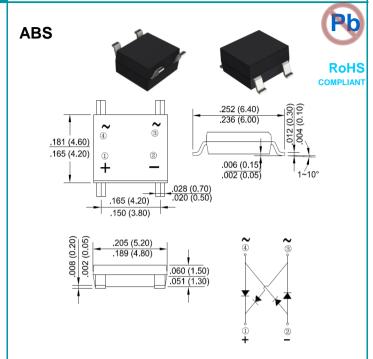
Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Note: Products with logo _____ or _____ are made by HY Electronic (Cayman) Limited.

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (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%.

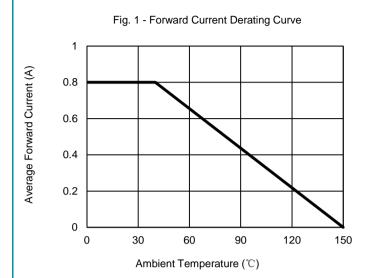
Characteristics	Symbol	ABS05	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=40 ℃ (Note1)	I(AV)	0.8							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFOM	IFSM 30							А
Superimposed on Rated Load (JEDEC Method)	IL2M 20								^
I ² t Rating for Fusing (t<8.3mS)	l ² t	3.7							A ² s
Peak Forward Voltage per Diode at 0.8A DC	VF	1.05							V
Maximum DC Reverse Current at Rated @TJ=25℃	lo.	IR 5							^
DC Blocking Voltage per Diode @TJ=125℃	IK	500							μΑ
Typical Thermal Resistance Junction to Ambient	Reja	80						°C/W	
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

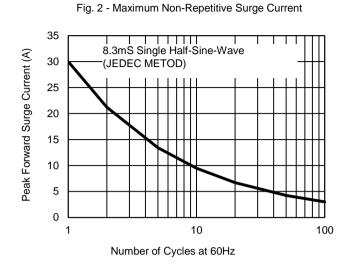
Notes: 1. Mounted on P.C. board.

2. The typical data above is for reference only .

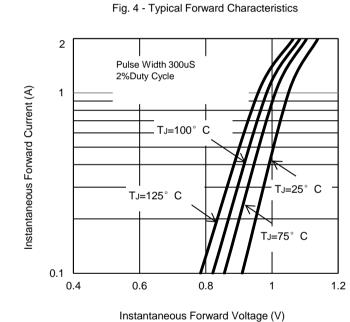
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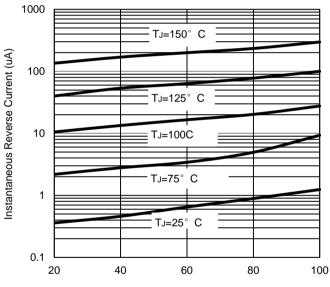












Percent of Rated Peak Reverse Voltage (%)

The curve above is for reference only.

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ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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