





Schottky Barrier Rectifiers

Reverse Voltage 30 - 1000 Volts
Forward Current - 8.0 Amperes

Features

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss,high efficiency
- High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications

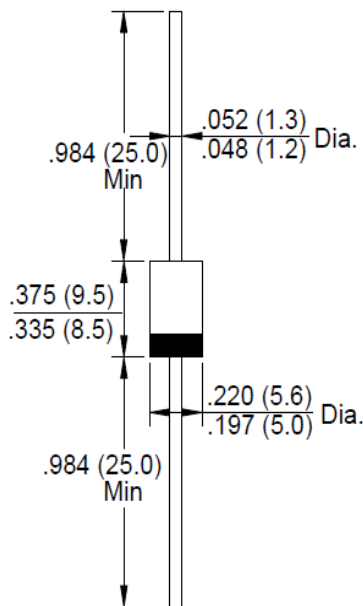
Mechanical Data

- Case: JEDEC DO-27 molded plastic
 - Polarity: Color band denotes cathode
 - Weight: 0.04ounces , 1.1grams
 - Mounting position: Any
- Note: Products with logo  or  are made by HY Electronic (Cayman) Limited.

DO-27



RoHS
COMPLIANT



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%

Characteristics	Symbol	SB830	SB840	SB850	SB860	SB880	SB8100	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current (See Fig.1) @T _C =95 °C	I _(AV)	8.0						A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	200						A
Peak Forward Voltage at 8.0A DC (Note1)	V _F	0.55	0.60	0.70		0.85		V
Maximum DC Reverse Current @T _J =25°C at Rated DC Blocking Voltage @T _J =100°C	I _R	1.0						mA
		50						
Operating Temperature Range	T _J	-55 to +150						°C
Storage Temperature Range	T _{STG}	-55 to +150						°C

NOTES:1.300us pulse width,2% dudy cycle.



Fig. 1 - Forward Current Derating Curve

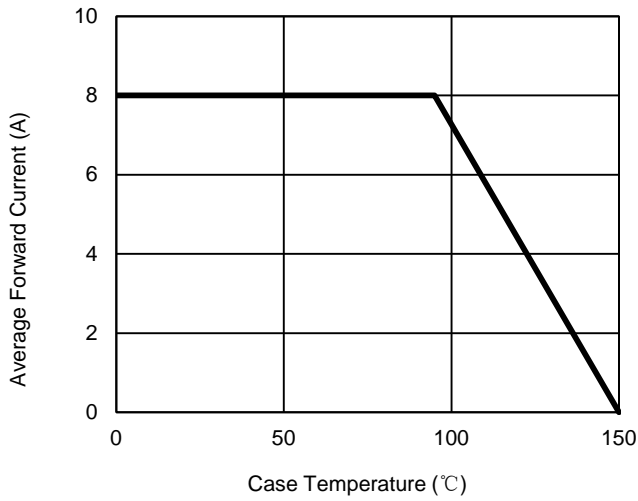


Fig. 2 - Maximum Non-Repetitive Surge Current

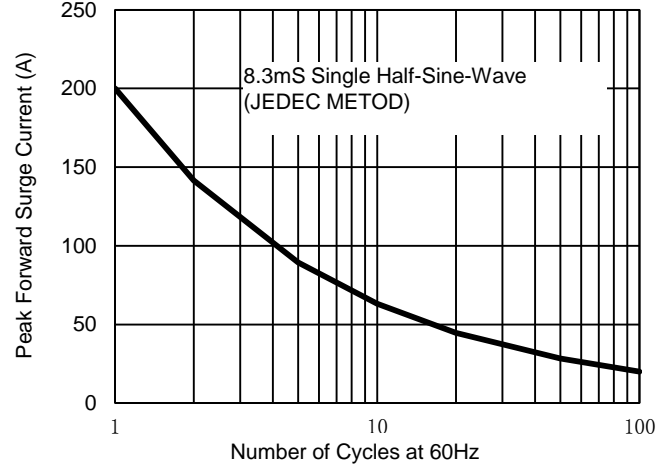


Fig. 3 - Typical Reverse Characteristics

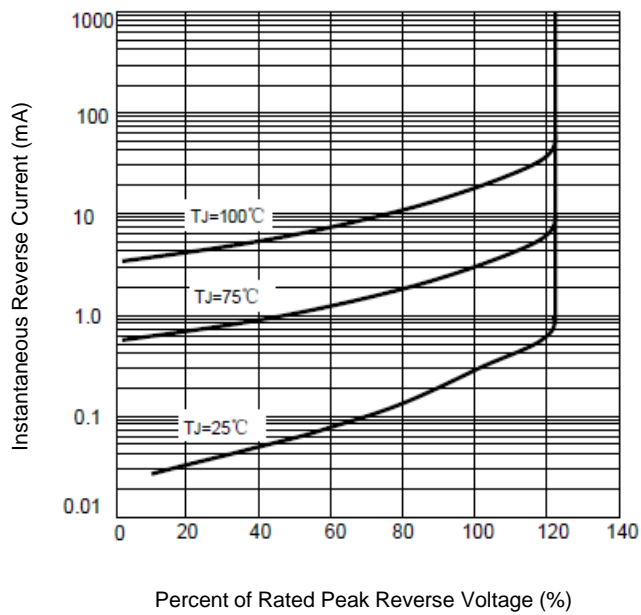
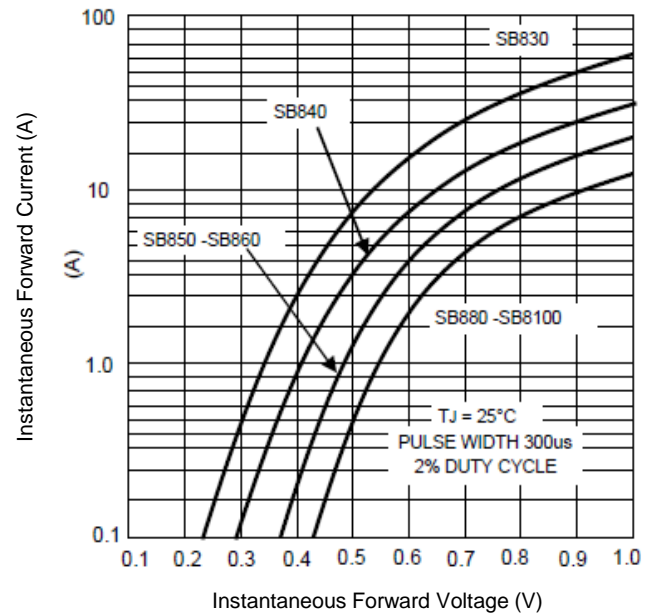


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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