



Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 150 Volts
Forward Current - 1.0 Amperes

Features

- Low power loss, high efficiency
- For surface mounted applications
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

Mechanical Data

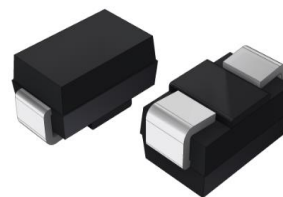
- Case: JEDEC SMA molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

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

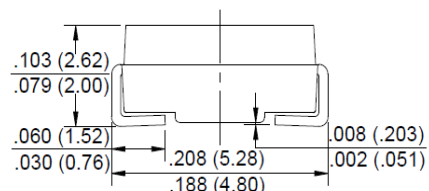
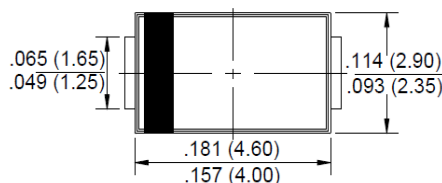
Applications

- For use in low voltage, high frequency inverters, polarity protection applications

SMA



RoHS
COMPLIANT



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	SS115	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	150	V
Maximum RMS Voltage	V _{RMS}	105	V
Maximum DC Blocking Voltage	V _{DC}	150	V
Maximum Average Forward Rectified Current @T _L =100 °C	I _(AV)	1.0	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30	A
Peak Forward Voltage at 1.0A DC (Note1)	V _F	0.95	V
Maximum DC Reverse Current @T _J =25°C	I _R	1.0	mA
at Rated DC Blocking Voltage @T _J =100°C		10	
Typical Junction Capacitance (Note 2)	C _J	90	pF
Typical Thermal Resistance Junction to Lead	R _{θJL}	20	°C/W
Junction Temperature Range	T _J	-55 to+150	°C
Storage Temperature Range	T _{STG}	-55 to+150	°C

- Notes: 1. 300uS pulse width, 2%duty cycle.
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
 3. The typical data above is for reference only . .

Rating and Characteristic Curves

SS115

Fig. 1 - Forward Current Derating Curve

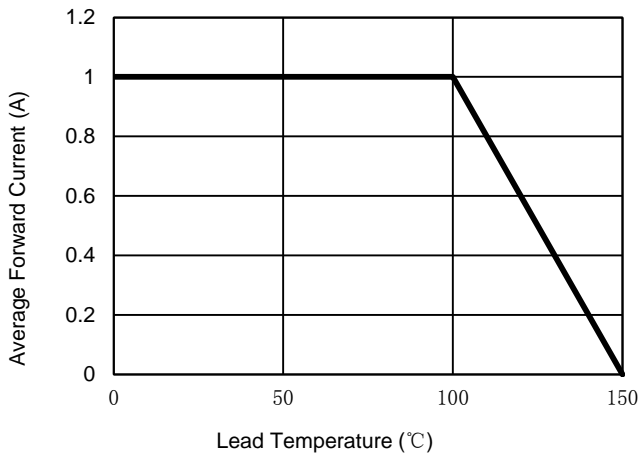


Fig. 2 - Maximum Non-Repetitive Surge Current

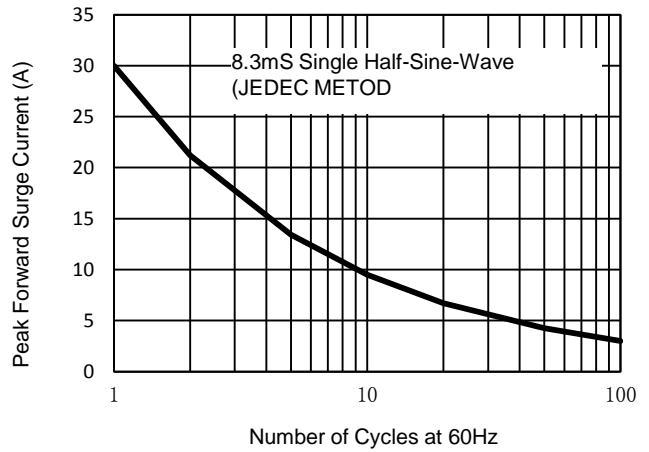


Fig. 3 - Typical Reverse Characteristics

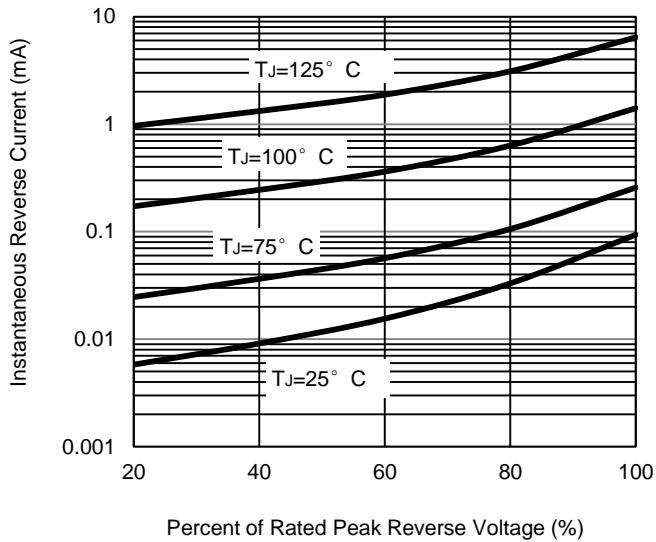
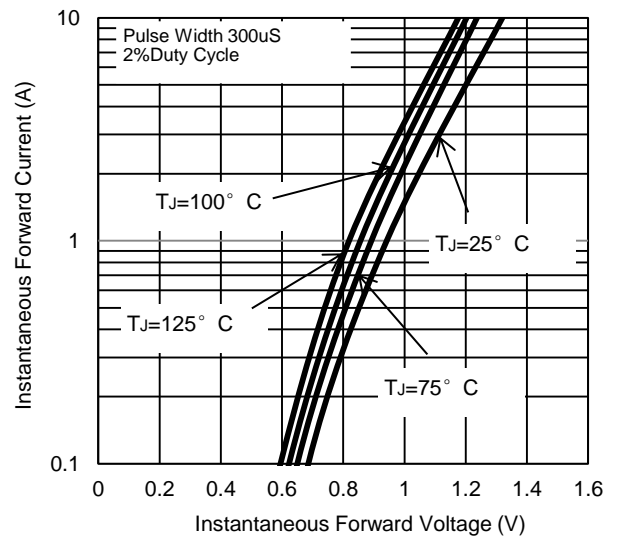


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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