

**Surface Mount Schottky Barrier Rectifiers****Features**

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

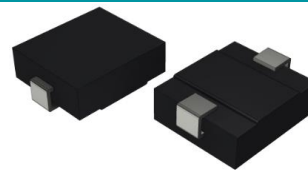
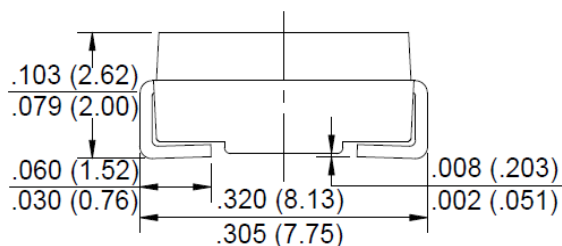
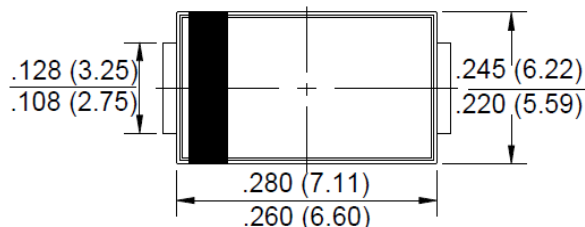
Mechanical Data

- Case: JEDEC SMC 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

Reverse Voltage - 20 to 100Volts**Forward Current - 3.0 Amperes****SMC****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	SS32	SS33	SS34	SS35	SS36	SS38	SS310	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current @T _L =100 °C	I(AV)	3.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80							A
Peak Forward Voltage at 3.0A DC (Note1)	V _F	0.55			0.70		0.85		V
Maximum DC Reverse Current @T _J =25°C	I _R	1.0							mA
at Rated DC Blocking Voltage @T _J =100°C		20							
Typical Junction Capacitance (Note 2)	C _J	250							pF
Typical Thermal Resistance Junction to Lead	R _{θJL}	10							°C/W
Typical Thermal Resistance Junction to Ambient	R _{θJA}	50							°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 .



Fig. 1 - Forward Current Derating Curve

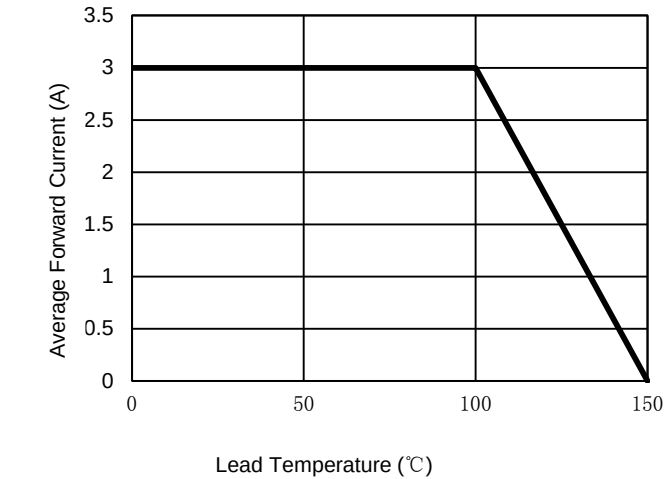


Fig. 2 - Maximum Non-Repetitive Surge Current

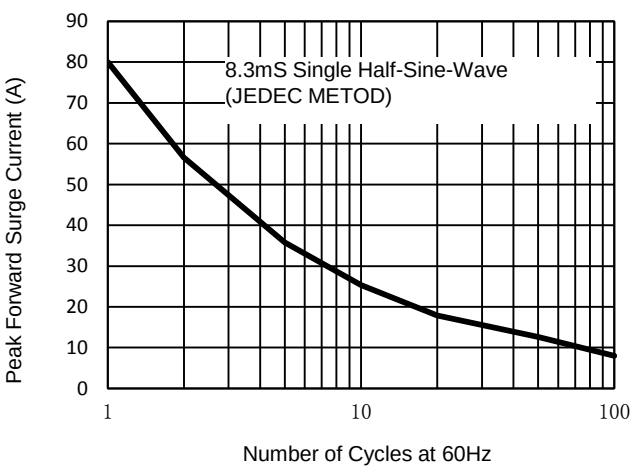


Fig. 3 - Typical Reverse Characteristics

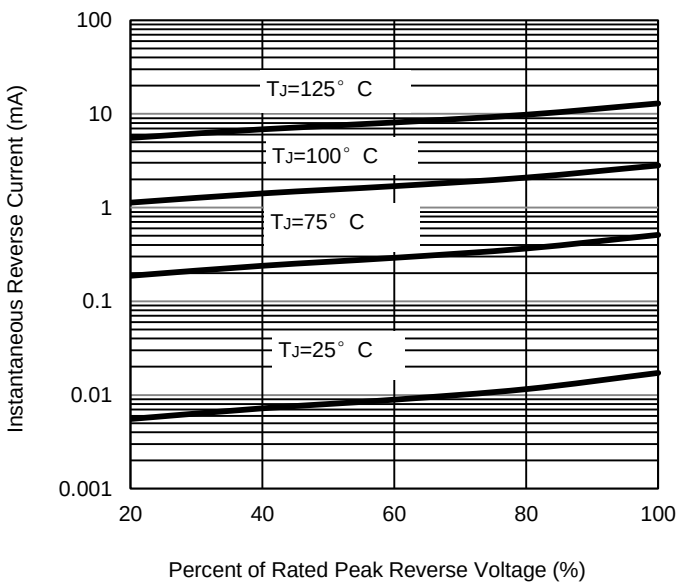


Fig. 4 - Typical Forward Characteristics

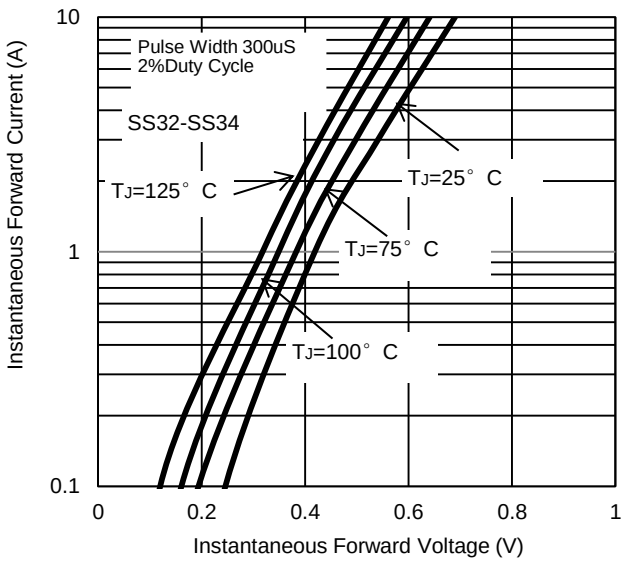


Fig. 5 - Typical Forward Characteristics

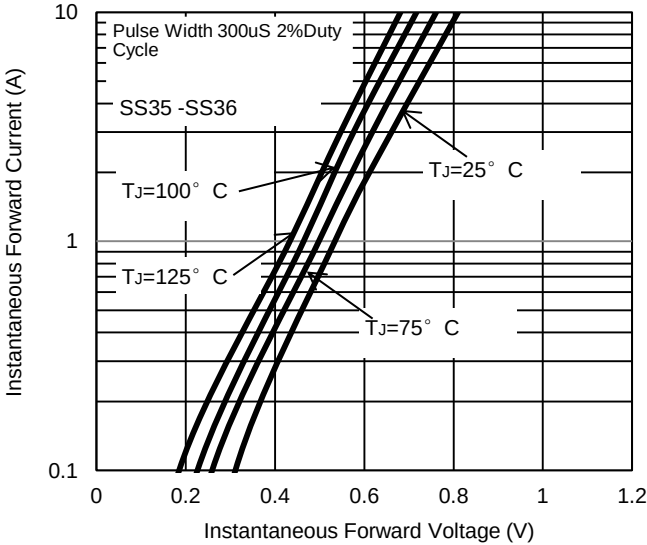
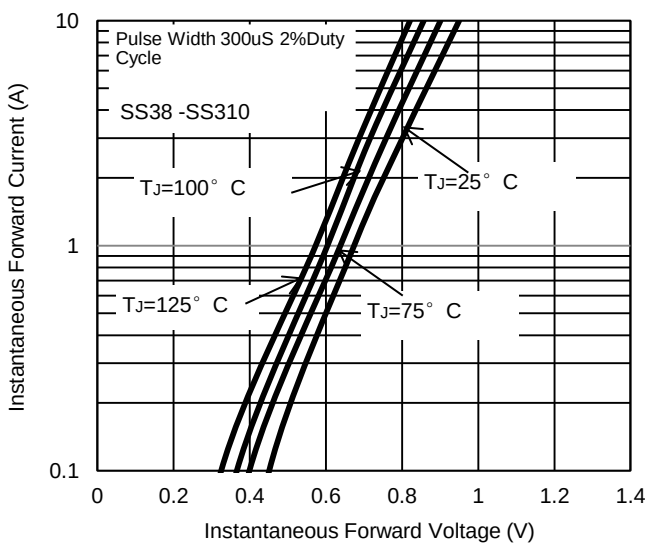


Fig. 6 - Typical Forward Characteristics



The curve above is for reference only.



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