

**Surface Mount Schottky Barrier Rectifiers****Reverse Voltage - 200 Volts**
Forward Current - 2.0 Amperes**Features**

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

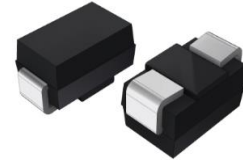
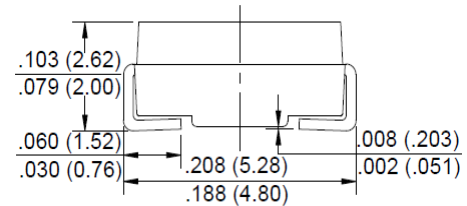
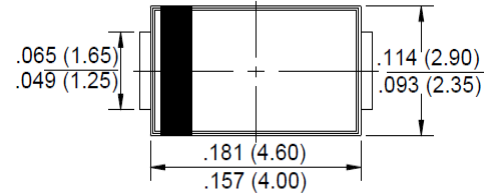
Mechanical Data

- 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	SS220A	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Rectified Current @T _L =100 °C	I _(AV)	2.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50	A
Peak Forward Voltage at 2.0A DC (Note1)	V _F	0.85	V
Maximum DC Reverse Current @T _J =25°C	I _R	0.5	mA
at Rated DC Blocking Voltage @T _J =100°C		10	
Typical Junction Capacitance (Note 1)	C _J	180	pF
Typical Thermal Resistance Junction to Lead	R _{θJL}	10	°C/W
Typical Thermal Resistance Junction to Case	R _{θJC}	5	°C/W
Typical Thermal Resistance to Ambient (Note 2)	R _{θJA}	65	°C/W
Junction Temperature Range	T _J	-55 to+150	°C
Storage Temperature Range	T _{STG}	-55 to+150	°C

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
2.P.C.B. mounted with 0.2×0.2"(5.0×5.0mm) copper pad areas.P.C.B.
3. The typical data above is for reference only .



Fig. 1 - Forward Current Derating Curve

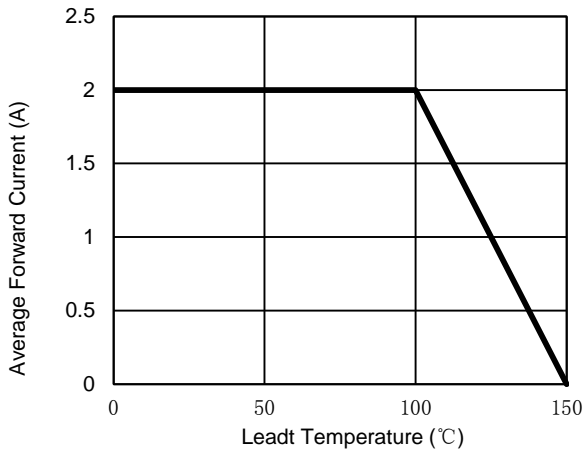


Fig. 2 - Maximum Non-Repetitive Surge Current

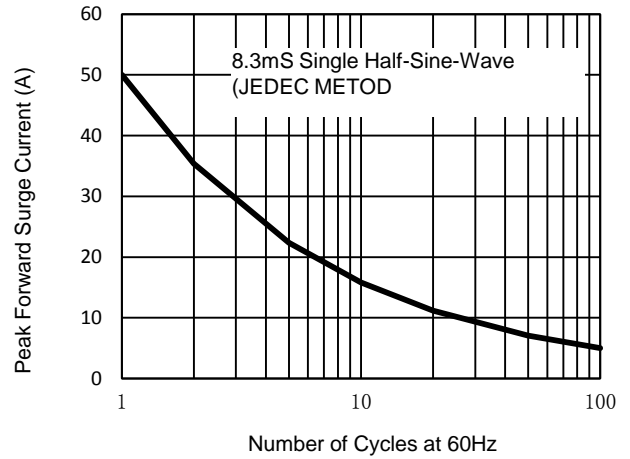


Fig. 3 - Typical Reverse Characteristics

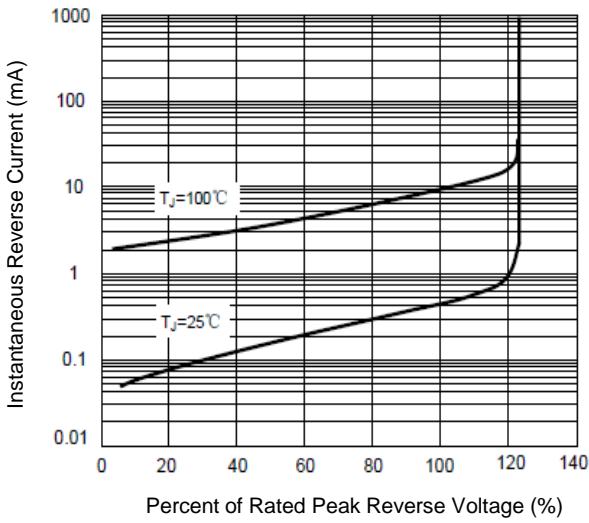


Fig. 4 - Typical Forward Characteristics

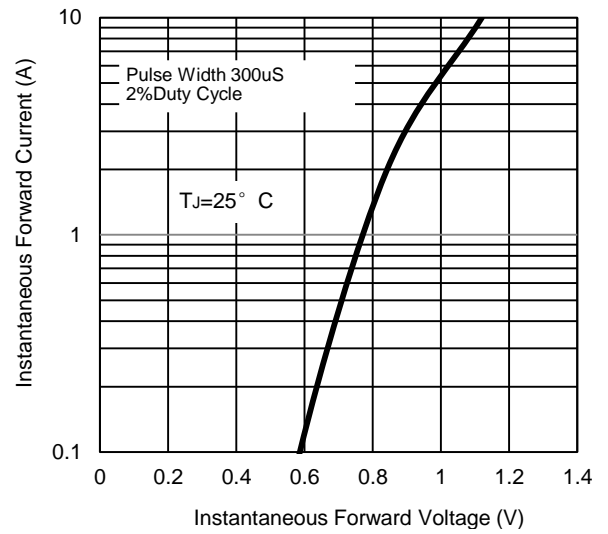
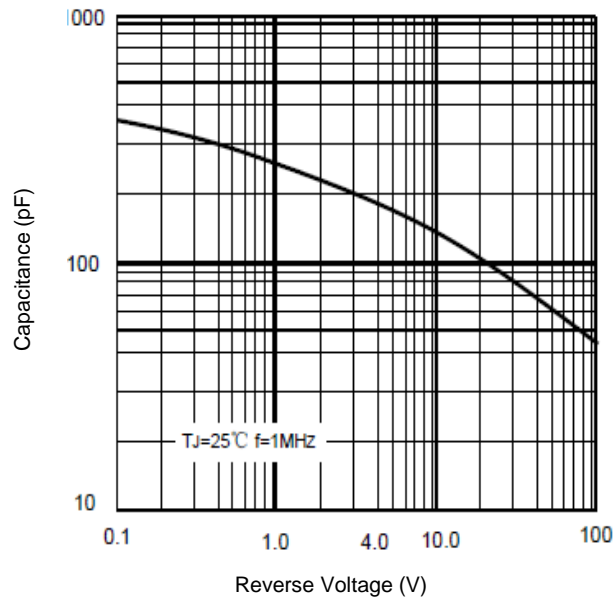


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.



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