

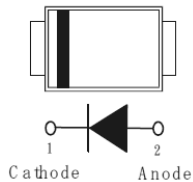
**Schottky Barrier Rectifiers****Reverse Voltage - 100 Volts
Forward Current - 2 Amperes****Features**

- For surface mounted applications
- Metal to silicon rectifier, majority carrier conduction
- High surge capacity
- Low power loss, high efficiency.
- Package suitable for Automated Handling
- Ultra Thin Profile Package for Space Constrained Utilization
- Meet with EU RoHS 2011/65/EU compliance

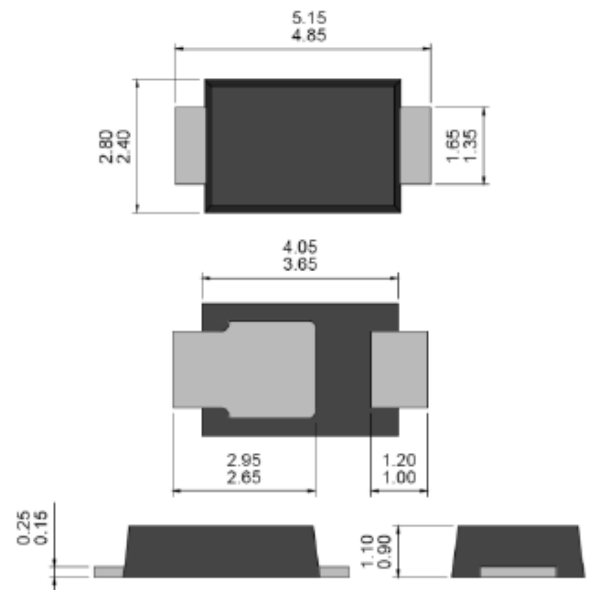
- Lead free and Green device

Mechanical Data

- Epoxy: UL94V-0 rated flame retardant
- Case: Epoxy ,SMA-ST Molded
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end



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

SMA-ST

Package Outline Dimensions in 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	HSS200100SAFT	Unit
	Markin α	210T	
Repetitive Peak Reverse Voltage	VRRM	100	V
RMS Voltage	V _{RMS}	70	V
DC Blocking Voltage	V _R	100	V
Average Forward Current	I(AV)	2	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50	A
Forward Voltage at 2.0 A DC	V _F	1.0	V
DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C	I _R	50	uA
Typical Thermal Resistance Junction to Lead (Note1)	R _{θJL}	20	°C/W
Typical Thermal Resistance Junction to Ambient (Note2)	R _{θJA}	150	°C/W
Operating Junction Temperature Range	T _J	-55 to+150	°C
Storage Temperature Range	T _{STG}	-55 to+150	°C

Notes: 1. Mounted on 48cm² copper pad area

2. Mounted on an FR4 PCB, single copper mini pad



Fig. 1 - Forward Current Derating Curve

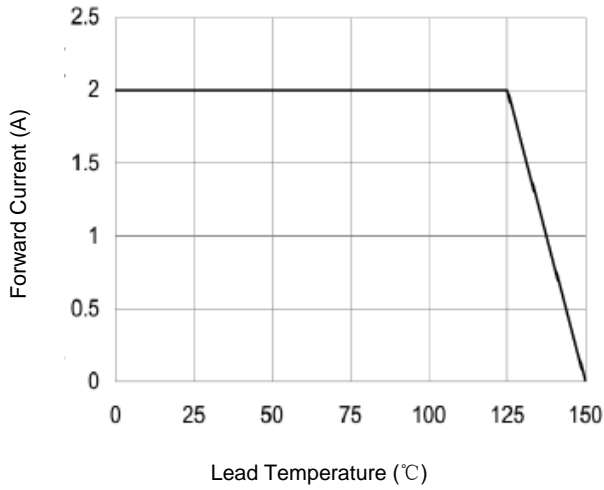


Fig. 2 - Typical Reverse Characteristics

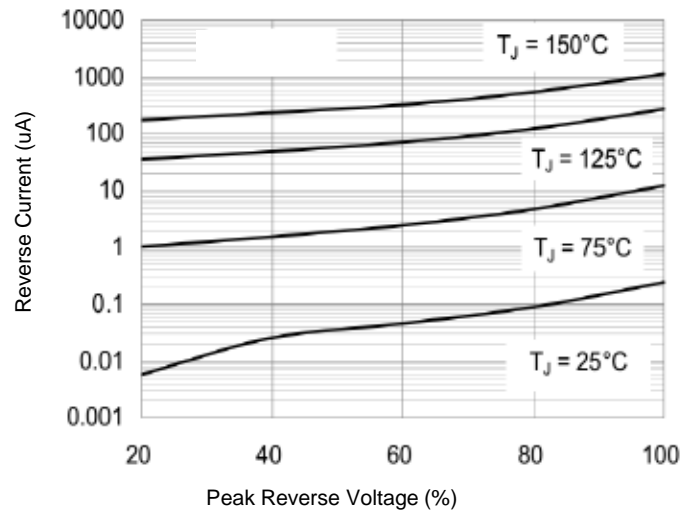
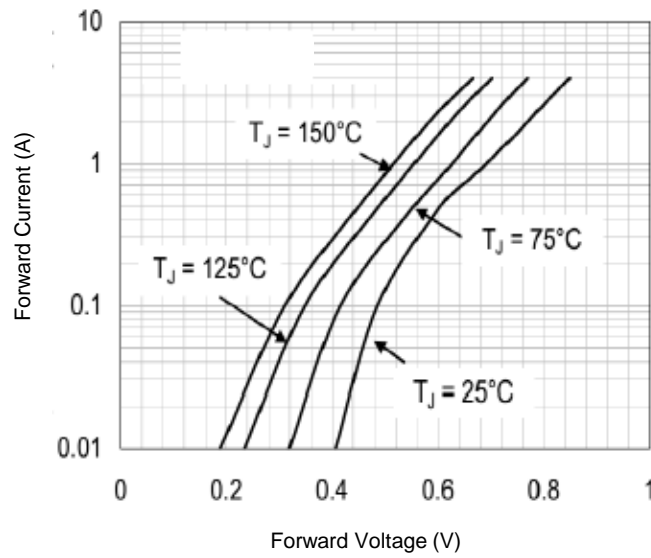


Fig. 3 - Typical Forward Characteristics





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