

Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 150 Volts
Forward Current - 5.0 Amperes

Features

- Low forward voltage drop
- High surge capability
- The plastic material carries UL recognition 94V-0

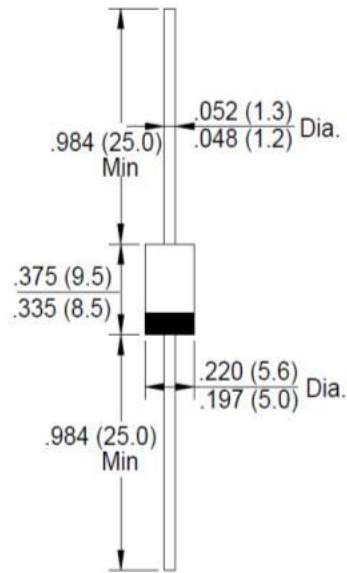
Mechanical Data

- Case: JEDEC DO-27 molded plastic
- Polarity: Color band denotes cathode

Applications

- Mounting position: Any
- For use in low voltage, high frequency inverters, polarity protection applications

DO-27



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	SR5150	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 =95°C	I _(AV)	5.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150	A
Peak Forward Voltage at 5.0 A DC	V _F	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		50	
Typical Junction Capacitance (Note1)	C _J	350	pF
Typical Thermal Resistance Junction to Lead	R _{θJL}	10	°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. The typical data above is for reference only.

Fig. 1 - Forward Current Derating Curve

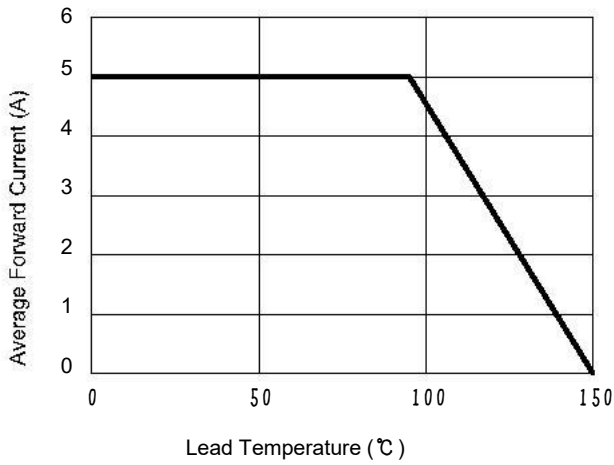


Fig. 2 - Maximum Non-Repetitive Surge Current

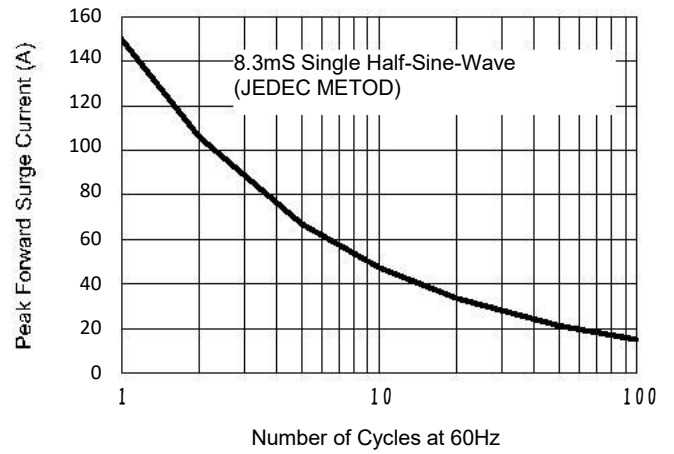


Fig. 3 - Typical Reverse Characteristics

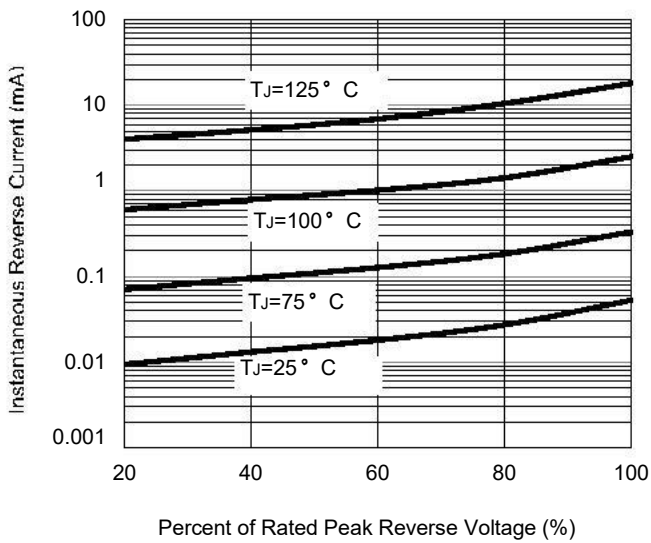


Fig. 6 - Typical Forward Characteristics

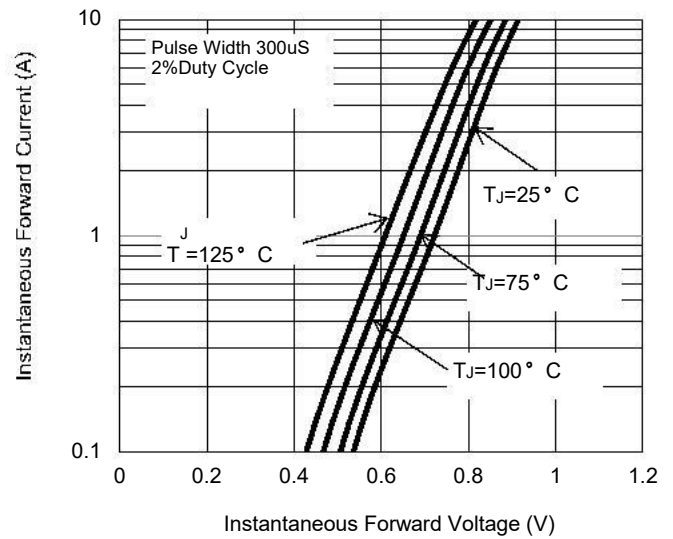
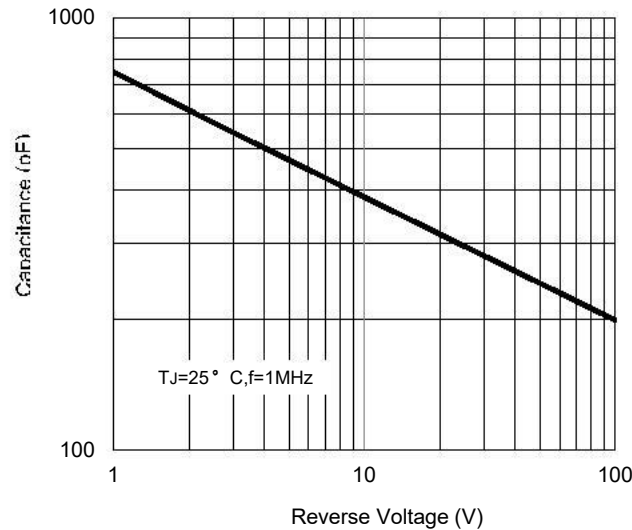


Fig. 8 - Typical Junction Capacitance



The curve above is for reference only.