

## Power Schottky Rectifier - 8Amp 40~200Volt

### Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed
- High reliability
- High surge current capability
- Epitaxial construction
- Lead free device
- Halogen-Free

### Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Terminals : Solder plated, solderable per MIL-STD-750,method 2026
- Polarity : Color band denotes cathode end
- Weight : 0.007 ounce 0.21 grams

### Maximum ratings and Electrical characteristics

Parameters	SCR84	SCR86	SCR810	SCR815	SCR820	UNIT
Marking Code	SS84	SS86	S810	S815	S820	
Maximum Recurrent Peak Reverse Voltage	40	60	100	150	200	V
Maximum RMS Voltage	28	42	70	105	140	V
Maximum DC Blocking Voltage	40	60	100	150	200	V
Maximum Average Forward Rectified Current	8					A
Peak Forward Surge Current	120					A
Maximum Instantaneous Forward Voltage at 8A	Tc = 25°C	0.55	0.70	0.85	0.88	V
	Tc = 125°C	0.44	0.55	0.66	0.69	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5		0.05		mA
	Tc = 100°C	20		10		
Typical Junction Capacitance	500					pF
Typical Thermal Resistance R <sub>θJL</sub> (Note 1)	17					°C/W
Operating and Storage Temperature Range	-50 to +125		-50 to +150			°C

Note : 1. Mounted on P.C.B with copper pad size 16mm x 16mm

# SCR84 ~ SCR820

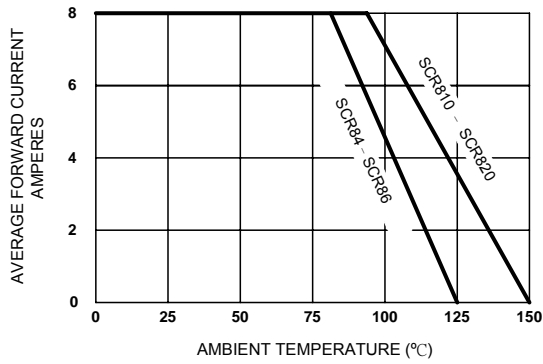


Figure 1. Forward Current Derating Curve

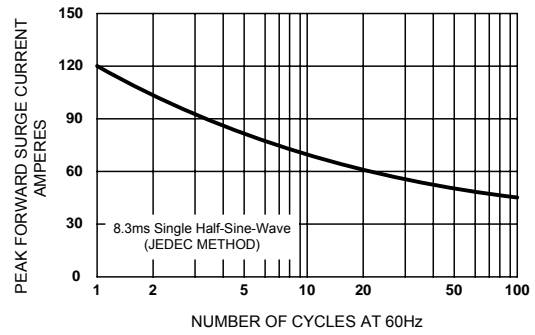


Figure 2. Maximum Non-repetitive Surge Current

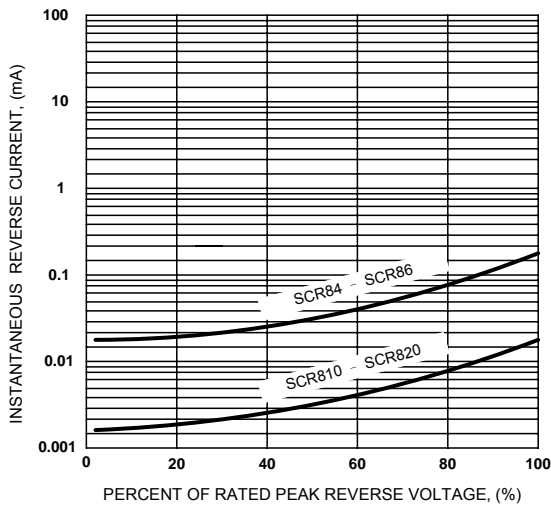


Figure 3. Typical Reverse Characteristics

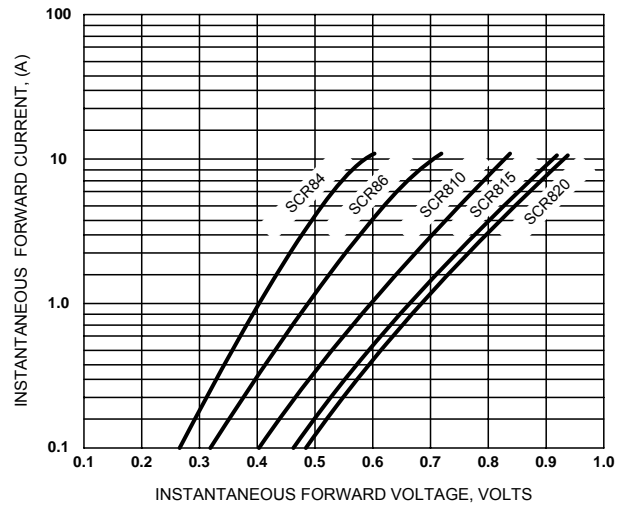


Figure 4. Typical Forward Characteristics

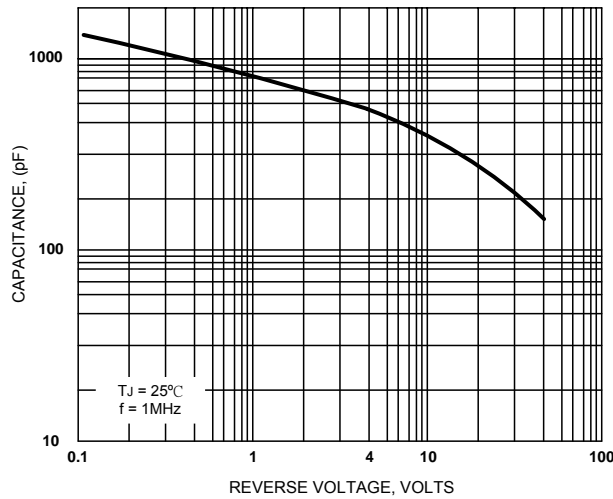


Figure 5. Typical Junction Capacitance



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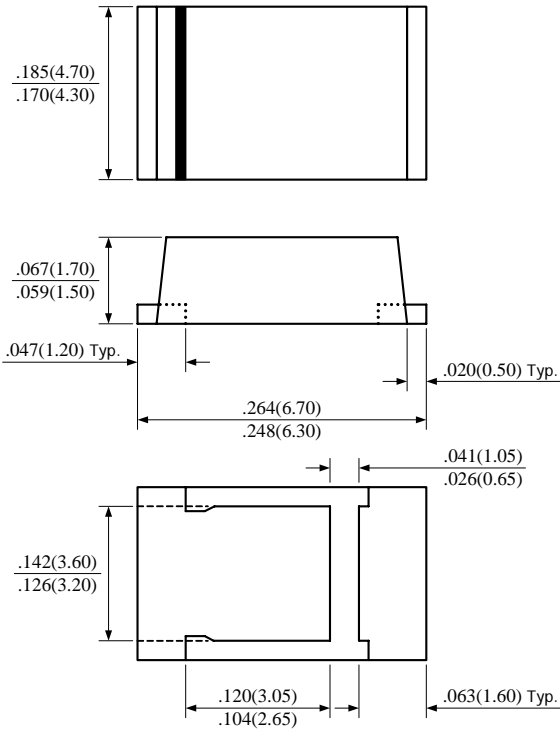
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SCR84~SCR820

SMC - T3



UNIT : inch(mm)

