

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	٧
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					А
Peak Forward Surge Current		120					А
Maximum Instantaneous Forward Voltage at 8A	Tc = 25°C	0.55	0.70	0.85	0.88	0.90	V
	Tc = 125°C	0.50	0.60	0.66	0.69	0.72	
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		350					pF
Typical Thermal Resistance ReJL (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

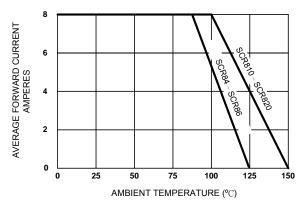


Figure 1. Forward Current Derating Curve

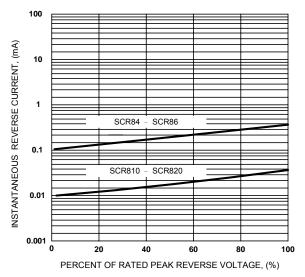


Figure 3. Typical Reverse Characteristics

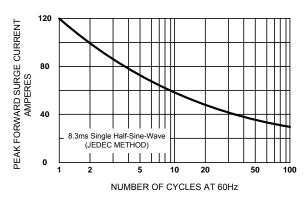


Figure 2. Maximum Non-repetitive Surge Current

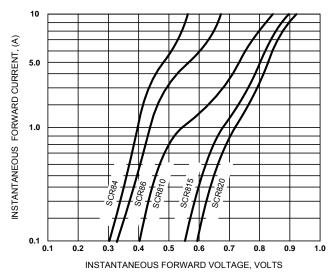


Figure 4. Typical Forward Characteristics

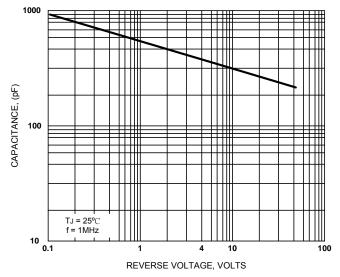
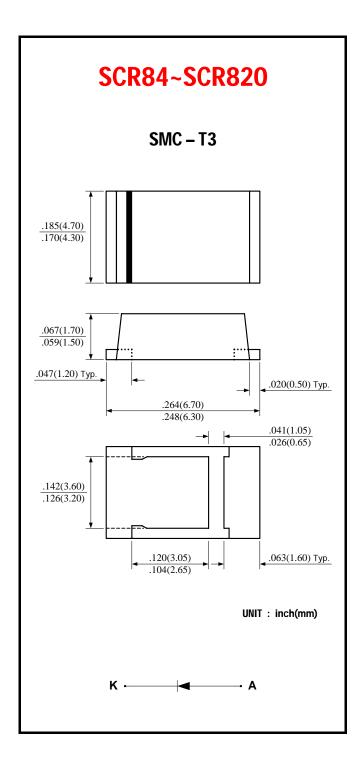


Figure 5. Typical Junction Capacitance





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