

Power Schottky Rectifier - 10Amp 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		SCR104	SCR106	SCR1010	SCR1015	SCR1020	UNIT
Marking Code		SS104	SS106	SS110	S1015	S1020	
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		10					A
Peak Forward Surge Current		150					A
Maximum Instantaneous Forward Voltage at 10A	Tc = 25°C	0.55	0.70	0.85	0.88	0.90	V
	Tc = 125°C	0.44	0.55	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		500					pF
Typical Thermal Resistance R _θ JL (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

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SCR104 ~ SCR1020

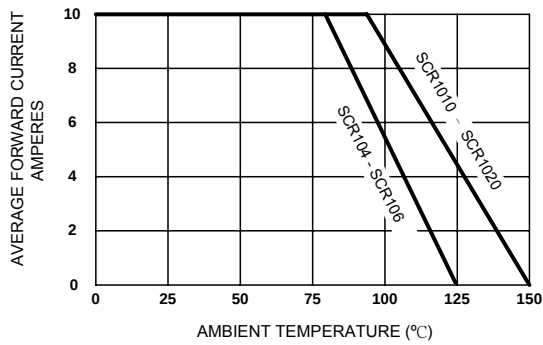


Figure 1. Forward Current Derating Curve

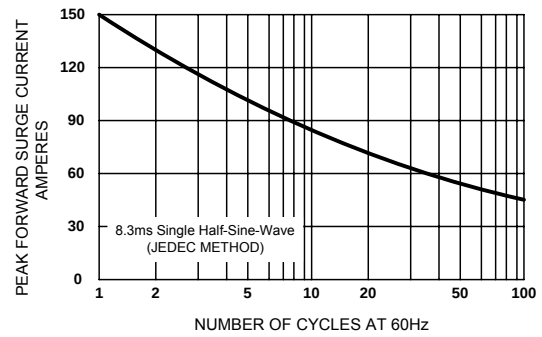


Figure 2. Maximum Non-repetitive Surge Current

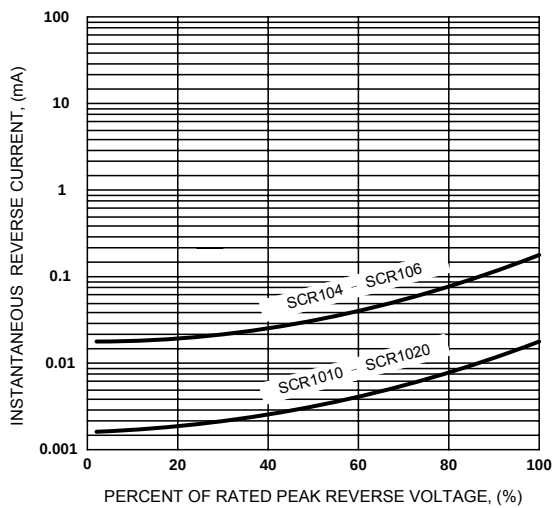


Figure 3. Typical Reverse Characteristics

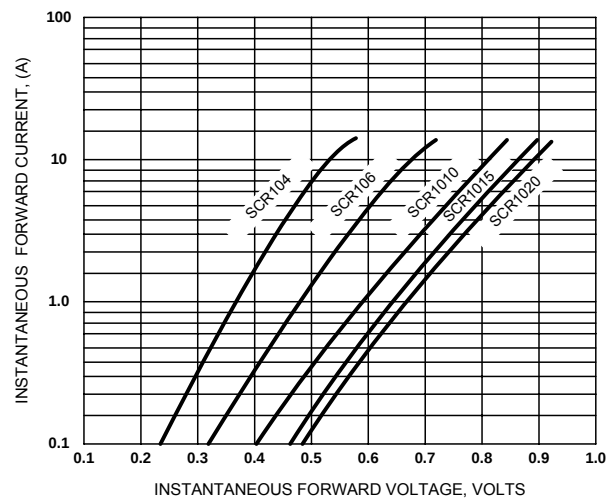


Figure 4. Typical Forward Characteristics

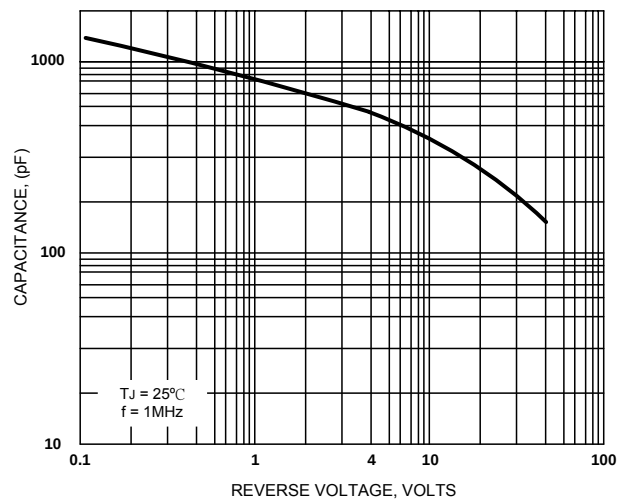
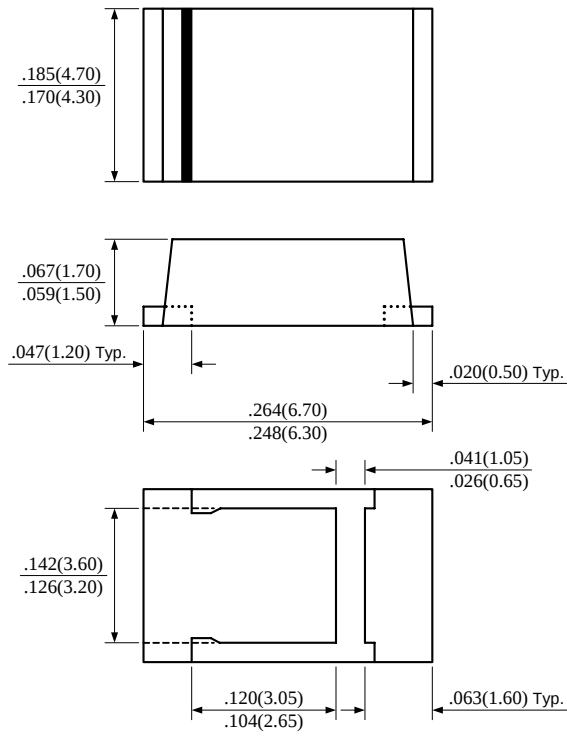


Figure 5. Typical Junction Capacitance

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SMC – T3



UNIT : inch(mm)

K ← | → A