

SCR104 ~ SCR1020

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

				1	1		
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					А
Peak Forward Surge Current		120					А
Maximum Instantaneous Forward Voltage at 10A	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			٥C

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

SCR104 ~ SCR1020

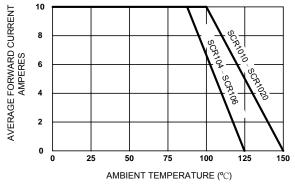


Figure 1. Forward Current Derating Curve

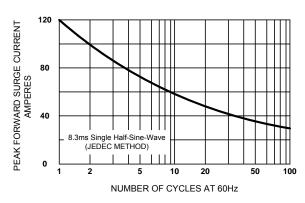
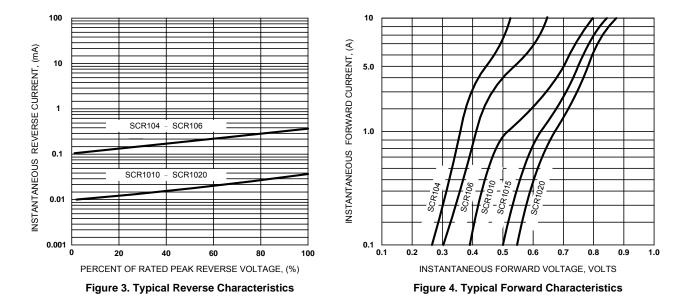


Figure 2. Maximum Non-repetitive Surge Current



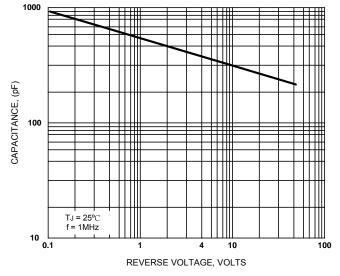
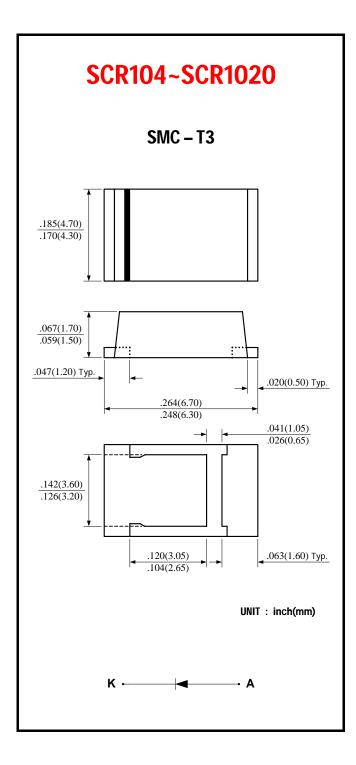


Figure 5. Typical Junction Capacitance





IMPORTANT NOTICE:

Sirect and Sirectsemi are registered trademarks of Sirect Semiconductor Incorporated. Sirect reserved the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase and use.

Products described herein may be covered by one or more United States, China, Taiwan or foreign patents pending.

Sirect products are not authorized for use as critical components in life support devices or system without express written approval of Sirect.

Sirect Semiconductor Incorporated does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel. Should customers purchase or use Sirect products for any unintended or unauthorized application, customers shall indemnify and hold Sirect and its representatives harmless against all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized application.

© Sirect Semiconductor Incorporated