

Power Schottky Rectifier - 1Amp 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 : 0.002 ounce 0.064 grams

Maximum ratings and Electrical characteristics

Parameters		SSR14	SSR16	SSR110	SSR115	SSR120	UNIT
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		1					A
Peak Forward Surge Current		30					A
Maximum Instantaneous Forward Voltage at 1A	Tc = 25°C	0.50	0.65	0.8	0.88	0.90	V
	Tc = 125°C	0.40	0.50	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		100					pF
Typical Thermal Resistance R θ JL (Note 1)		25					°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 8mm x 8mm

September 2015 / Rev.7.1

SSR14 ~ SSR120

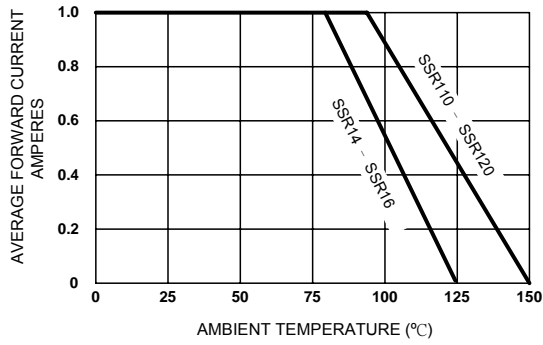


Figure 1. Forward Current Derating Curve

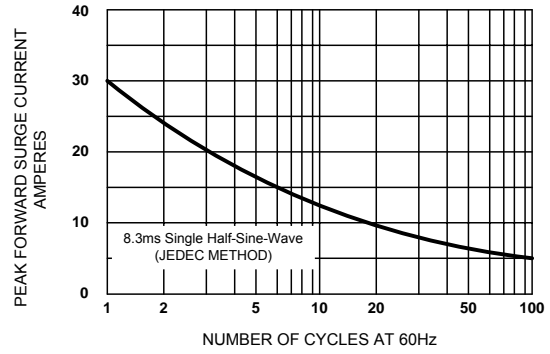


Figure 2. Maximum Non-repetitive Surge Current

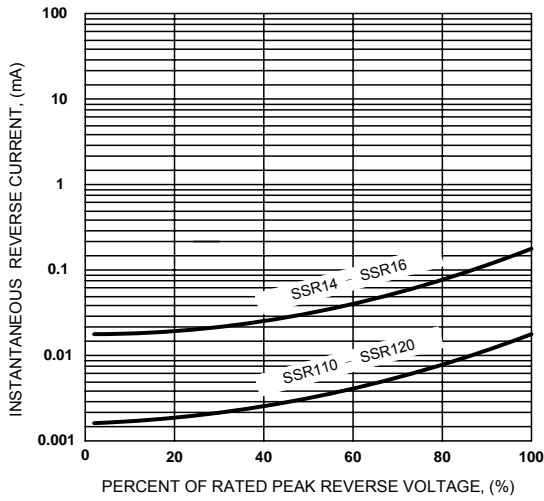


Figure 3. Typical Reverse Characteristics

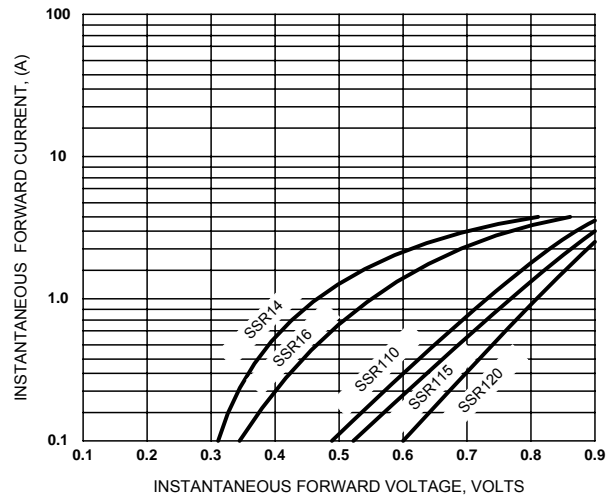


Figure 4. Typical Forward Characteristics

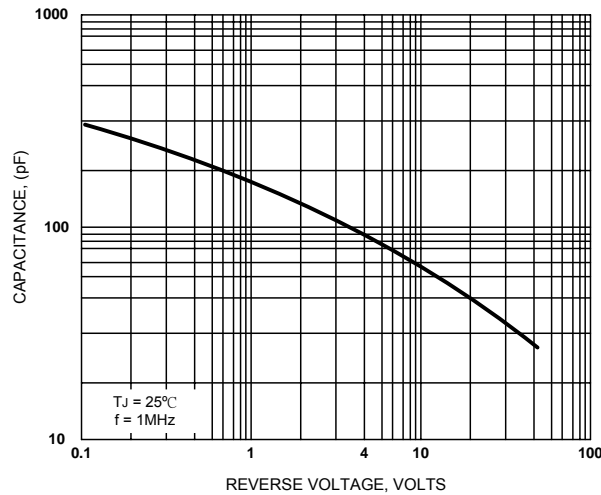


Figure 5. Typical Junction Capacitance



Sirectifier Semiconductor Inc.

U.S.A.: sgc@sirect.com

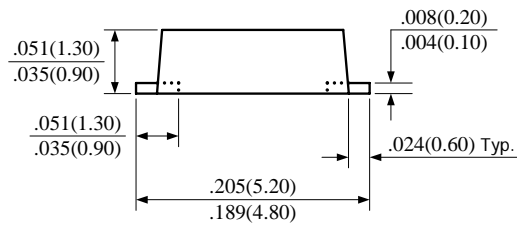
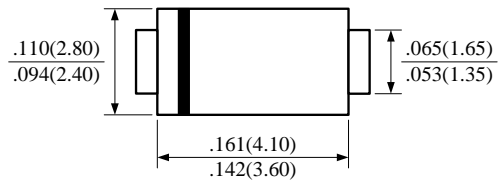
China: st@sirect.com

Taiwan: se@sirect.com

Hong Kong: hk@sirect.com

SSR14~SSR120

SMA - FT



UNIT : inch(mm)

