



SR102 - SR115

1.0 AMP. Schottky Barrier Rectifiers

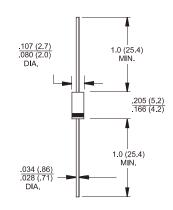
DO-41

Features

- Low power loss, high efficiency. High current capability, Low VF.
- High reliability
- High surge current capability.
- Epitaxial construction.
- Guard-ring for transient protection. For use in low voltage, high frequency inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Cases: DO-41 molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
 Polarity: Color band denotes cathode
- High temperature soldering guaranteed: 260°C/10 seconds/.375",(9.5mm) lead lengths at 5 lbs., (2.3kg) tension Weight: 0.33 grams



Dimensions in inches and (millimeters)



SR1XX = Specific Device Code = Green Compound = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	SR 102	SR 103	SR 104	SR 105	SR 106	SR 109	SR 110	SR 115	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	63	70	105	٧
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current See Fig. 1	I F(AV)	1.0								Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	İFSM	30							А	
Maximum Instantaneous Forward Voltage @ 1.0A	VF	0.55			0.	70 0.		80	0.95	V
Maximum D.C. Reverse Current @ T _A =25 °C		0.5 0.1						mA		
(Note 1) @ T _A =100 °C	I _R		10		5		_			mA
@ T _A =125 °C		-					2			mA
Typical Junction Capacitance (Note 2)	Cj	80		6	65		28		pF	
Typical Thermal Resistance (Note 3)	Reja	90							°C/W	
Operating Junction Temperature Range	TJ	- 65 to +125 -65 to +150						°C		
Storage Temperature Range	Tstg	-65 to +150								°C

Notes: 1 Pulse Test with PW=300 usec 1% Duty Cycle

2. Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

3. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

Version: C10



RATINGS AND CHARACTERISTIC CURVES (SR102 THRU SR115)

