

SR002 - SR010 0.5 AMP. Schottky Barrier Rectifiers

DO-41

Features

- Low power loss, high efficiency. High current capability, Low VF. \diamond
- 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
- ∻

Maximum Ratings and Electrical Characteristics

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

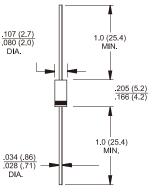
Type Number	Symbol	SR 002	SR 003	SR 004	SR 005	SR 006	SR 009	SR 010	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	90	100	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	F(AV)	0.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	30							А
Maximum Instantaneous Forward Voltage @ 0.5A	VF	0.55			0.70		0.85		V
Maximum D.C. Reverse Current @ T _A =25 °C		0.5			0.5 0.1			mA	
at Rated DC Blocking Voltage @ T _A =100 °C (Note 1)	IR		10	5			_		mA
@ T _A =125 °C		-					2		mA
Typical Junction Capacitance (Note 2)	Cj		110		80		65		рF
Typical Thermal Resistance (Note 3)	Reja	50						°C/W	
Operating Junction Temperature Range	ΤJ	- 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

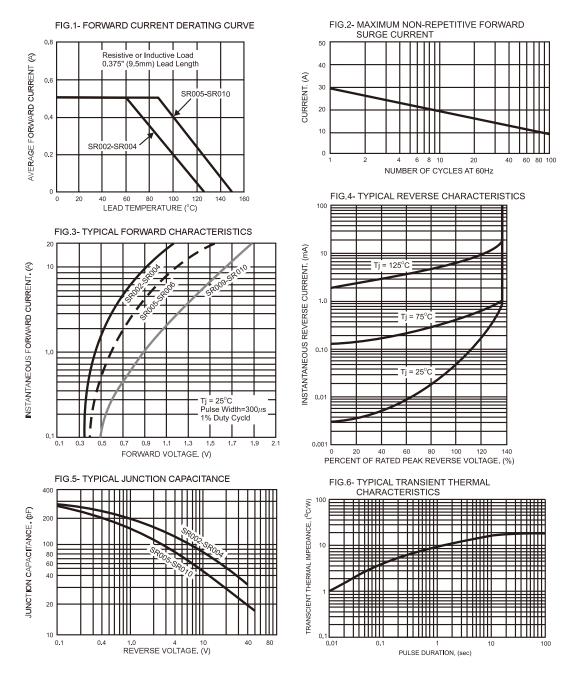


Dimensions in inches and (millimeters)

Marking Diagram







RATINGS AND CHARACTERISTIC CURVES (SR002 THRU SR010)

Version: C10