

SR002 THRU **SR006**

0.5 AMP. Schottky Barrier Rectifiers

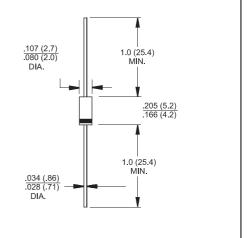
Voltage Range 20 to 60 Volts Current 0.5 Ampere

Features

- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- High surge current capability

Mechanical Data

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



Dimensions in inches and (millimeters)

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	SR002	SR003	SR004	SR005	SR006	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	0.5					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40					Α
Maximum Instantaneous Forward Voltage @ 0.5A	V_{F}	0.55			0.70		V
Maximum D.C. Reverse Current @ T_A =25°C at Rated DC Blocking Voltage @ T_A =100°C	I _R	0.5 5.0			0.5 10		mA mA
Typical Thermal Resistance (Note 1)	$R\theta_{JA}$	50					€\M
Typical Junction Capacitance (Note 2)	CJ	110			80		pF
Operating Junction Temperature Range	TJ	- 65 to +125			-65 to +150		Ç
Storage Temperature Range	T _{STG}	-65 to +150					್

Notes: 1. Mount on Cu-Pad Size 5mm x 5mm on P.C.B.

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



