

SROA-S thru SROM-S

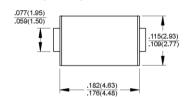
1.5 Amps. Fast Recovery Surface Mount Rectifiers Voltage Range 50 to 1000 Volts Forward Current 1.5 Amperes

Features

- ◆ For surface mounted application
- ◆ Low profile package
- ◆ Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ◆ Fast switching for high efficiency
- High temperature soldering: 260°C/10 seconds at terminals



DO-214AC (SMAJ)

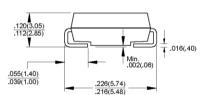


Mechanical Data

◆ Cases: New SMA molded plastic

◆ Terminals: Solder plated solderable per MIL-STD-750, Method 2026

Polarity: Indicated by cathode band
Weight: 0.004 ounce, 0.113 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Parameter	Symbols	SROA-S	SROB-S	SROD-S	SROG-S	SROJ-S	SROK-S	SROM-S	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current See Fig. 1	I _{F(AV)}	1.5							Amps
Peak forward surge current, 8.3 ms single half sine- wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0							Amps
Maximum instantaneous forward voltage @ 1.5A	V _F	1.30							Volts
Maximum DC reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R	5.0 200							uА
Maximum reverse recovery time (Note 1)	t,,	150 250 500					nS		
Typical junction capacitance (Note 2)	C _J	50							pF
Typical thermal resistance (Note 3)	$R_{_{\theta JA}} \ R_{_{\theta JL}}$	60.0 20.0							°C/W
Operating temperature range	T _J	-55 to +125							°C
Storage temperature range	T _{stg}	-55 to +150							°C

Notes: 1. Reverse Recovery Test Conditions: $I_e = 0.5A$, $I_p = 1.0A$, $I_{pp} = 0.25A$

- 2. Measured at 1 MHz and Applied V_a=4.0 Volts
- 3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.27" x 0.27" (7.0 x 7.0 mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES

