

## SRAS2035 THRU SRAS2045

20.0 AMPS. Schottky Barrier Rectifiers



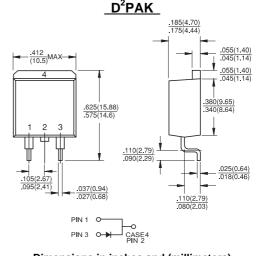
Voltage Range 35 to 45 Volts Current 20.0 Amperes

## **Features**

- ♦ For surface mounted application
- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ High reliability
- High surge current capability

## Mechanical Data

- ♦ Cases: D<sup>2</sup>PAK molded plastic
- ♦ Epoxy: UL 94V-0 rate flame retardant
- ♦ Terminals: Lead solderable per MIL-STD-202, Method 208 guaranteed
- ♦ Polarity: As marked
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- ♦ Weight: 1.70 grams



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	SRAS2035	SRAS2040	SRAS2045	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	35	40	45	V
Maximum RMS Voltage	$V_{RMS}$	25	28	32	V
Maximum DC Blocking Voltage	$V_{DC}$	35	40	45	V
Maximum Average Forward Rectified Current See Fig. 1	I <sub>(AV)</sub>	20.0			Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	350			Α
Maximum Instantaneous Forward Voltage @ 20.0A @ 40.0A	$V_{F}$	0.57 0.73		<b>V</b>	
Maximum D.C. Reverse Current @ Tj=25℃ at Rated DC Blocking Voltage @ Tj=125℃	I <sub>R</sub>	2.7 105		mA mA	
Typical Thermal Resistance (Note 1)	$R heta_{JC}$	1.5		C/W	
Typical Junction Capacitance (Note 2)	pF	900		pF	
Operating Junction Temperature Range	$T_J$	-65 to +150		Ç	
Storage Temperature Range	T <sub>STG</sub>		-65 to +150		Ç

Notes: 1. Thermal Resistance from Junction to Case Per Leg,

2. Measured at 1MHz and Applied Reverse Voltage of 5.0V D.C.



