

## SRAS2035 THRU SRAS2045

20.0 AMPS. Schottky Barrier Rectifiers



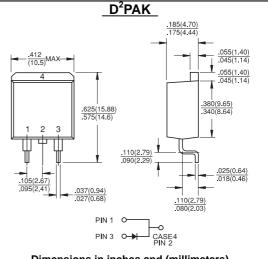
Voltage Range 35 to 45 Volts Current 20.0 Amperes

## **Features**

- For surface mounted application
- Low forward voltage drop
- $\diamond$ High current capability
- High reliability
- High surge current capability

## Mechanical Data

- Cases: D<sup>2</sup>PAK molded plastic
- $\diamondsuit$ 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%

roi 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 <sub>RMS</sub>	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 <sub>F</sub>	0.57 0.73			V
Maximum D.C. Reverse Current @ Tj=25℃		2.7			mΑ
at Rated DC Blocking Voltage @ Tj=125°C	I <sub>R</sub>	105			mΑ
Typical Thermal Resistance (Note 1)	$R\theta_{JC}$	1.5			°C/W
Typical Junction Capacitance (Note 2)	pF	900			pF
Operating Junction Temperature Range	TJ	-65 to +150			Ç
Storage Temperature Range	T <sub>STG</sub>	-65 to +150			င

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

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



