

SRAS2035 THRU SRAS2045

20.0 AMPS. Schottky Barrier Rectifiers



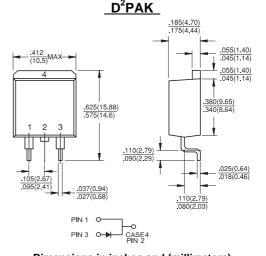
Voltage Range 35 to 45 Volts Current 20.0 Amperes

Features

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

Mechanical Data

- ♦ Cases: D²PAK 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 _(AV)	20.0			Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	350			Α
Maximum Instantaneous Forward Voltage @ 20.0A @ 40.0A	V_{F}	0.57 0.73		V	
	I _R	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	TJ	-65 to +150		C	
Storage Temperature Range	T _{STG}		-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.



