



# SRAD320 THRU SRAD360

## 3.0 AMPS. Schottky Barrier Rectifiers



Voltage Range  
20 to 60 Volts  
Current  
3.0 Amperes

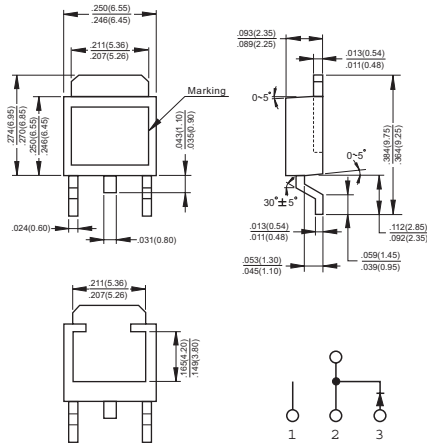
### Features

- Extremely fast switching
- Extremely low forward drop
- Guaranteed reverse avalanche

### Mechanical Data

- Cases: Epoxy, molded
- Weight: 0.4 gram (approximately)
- Finish: All external surfaces corrosion resistant and terminal leads are readily solderable
- Lead and mounting surface temperature for soldering purposes: 260°C max. for 10 seconds
- Shipped 75 units per plastic tube
- Marking: SRAD320, SRAD330, SRAD340, SRAD350, SRAD360

### D<sup>PAK</sup>



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	SRAD 320	SRAD 330	SRAD 340	SRAD 350	SRAD 360	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)	$I_{(AV)}$	3.0					A
Nonrepetitive Peak Surge Current (Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 HZ)	$I_{FSM}$	75					A
Peak Repetitive Reverse Surge Current (Note 1)	$I_{RRM}$	1.0					A
Maximum Instantaneous Forward Voltage @3.0A	$V_F$	0.55		0.7			V
Maximum D.C. Reverse Current @ $T_c=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_c=125^\circ\text{C}$	$I_R$	0.3			20		mA mA
Maximum Thermal Resistance Per Leg (Note 3)	$R_{\theta_{JC}}$ $R_{\theta_{JA}}$	6 80					$^\circ\text{C}/\text{W}$
Typical Junction Capacitance (Note 2)	$C_j$	400					pF
Operating Junction Temperature Range	$T_J$	-65 to +150			-65 to +125		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150					$^\circ\text{C}$

Notes : 1. 2.0us Pulse Width,  $f=1.0\text{KHz}$ .

2. Pulse Test : 300 us, 2.0% Duty Cycle.

3. Thermal resistance from Junction to Case and Thermal Resistance from Junction to Ambient.

## RATINGS AND CHARACTERISTIC CURVES (SRAD320 THRU SRAD360)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

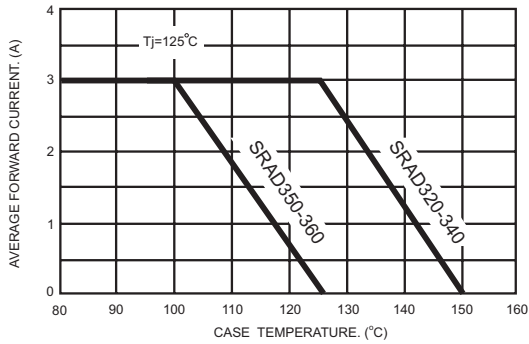


FIG.2- TYPICAL JUNCTION CAPACITANCE PER LEG

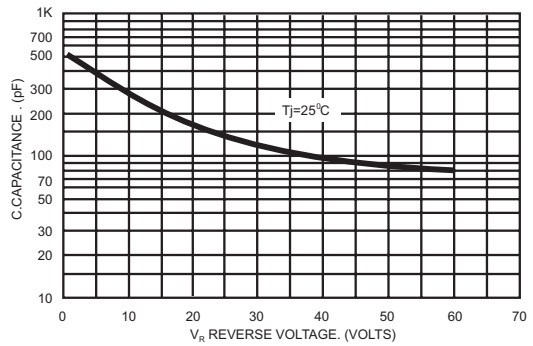


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER LEG

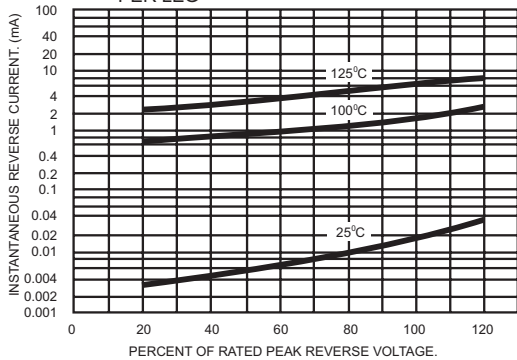


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER LEG

