



SRAD320 THRU SRAD360

3.0 AMPS. Schottky Barrier Rectifiers



Voltage Range
20 to 60 Volts
Current
3.0 Amperes

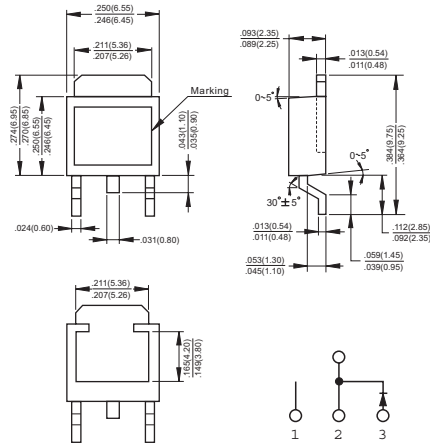
Features

- ✧ 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'PAK



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					$^{\circ}\text{C/W}$
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

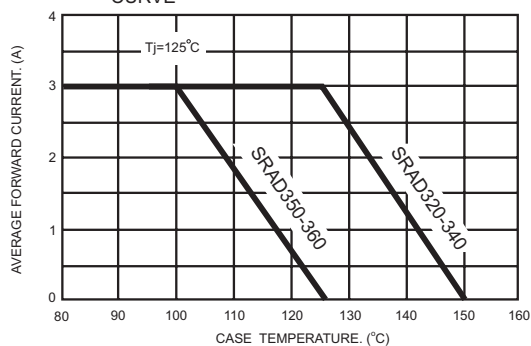


FIG.2- TYPICAL JUNCTION CAPACITANCE PER LEG

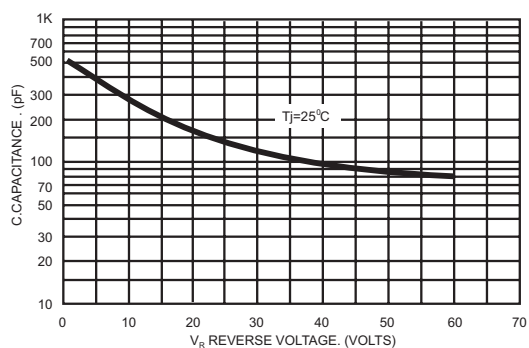


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER LEG

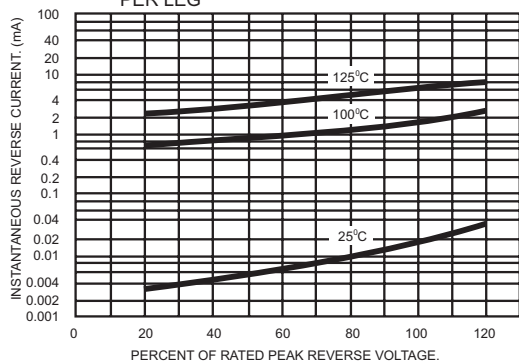


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER LEG

