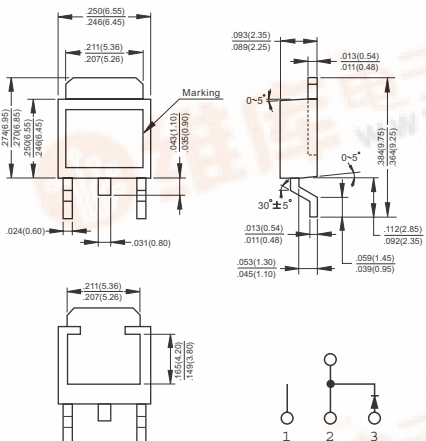


	SRAD820 THRU SRAD860 8.0 AMPS. Schottky Barrier Rectifiers							
	Voltage Range 20 to 60 Volts Current 8.0 Amperes							
Features ✧ Low forward voltage ✧ 125°C operating junction temperature ✧ Epoxy meets UL94, VO at 1/8" ✧ Guaranteed reverse avalanche ✧ Compact size ✧ Lead formed for surface mount	D^{PAK}  Dimensions in inches and (millimeters)							
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: SRAD820, SRAD830, SRAD840, SRAD850, SRAD860								
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 820	SRAD 830	SRAD 840	SRAD 850	SRAD 860	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 at T _C = 88°C	I _(AV)	8.0					A	
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60 HZ)	I _{FSM}	75					A	
Maximum Instantaneous Forward Voltage at @8.0A	V _F	0.55		0.7			V	
Maximum D.C. Reverse Current @ T _C =25°C at Rated DC Blocking Voltage(Note 1) @ T _C =100°C	I _R	1.4 35					mA mA	
Maximum Thermal Resistance Per Leg (Note 2)	R _θ _{JC} R _θ _{JA}	6 80					°C/W	
Operating Junction Temperature Range	T _J	-65 to +125					°C	
Storage Temperature Range	T _{STG}	-65 to +150					°C	

Notes: 1. Pulse Test: Pulse Width = 300us, 2.0% Duty Cycle.

2. Thermal Resistance from Junction to Case and Thermal Resistance from Junction to Ambient.

RATINGS AND CHARACTERISTIC CURVES (SRAD820 THRU SRAD860)

FIG.1- FORWARD CURRENT DERATING CURVE

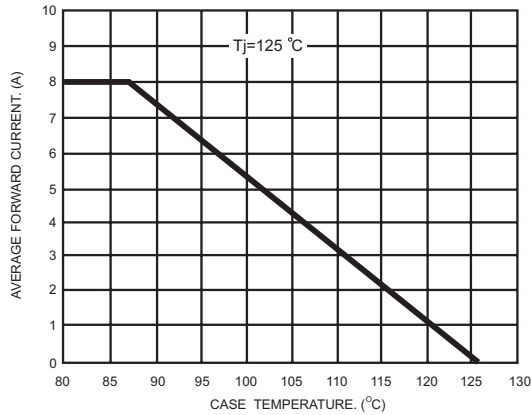


FIG.2-TYPICAL FORWARD CHARACTERISTICS PER LEG

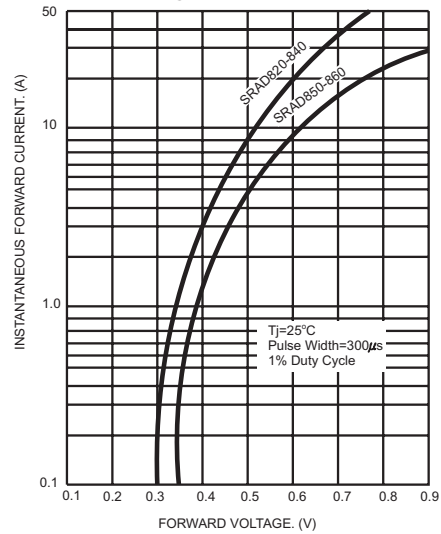


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER LEG

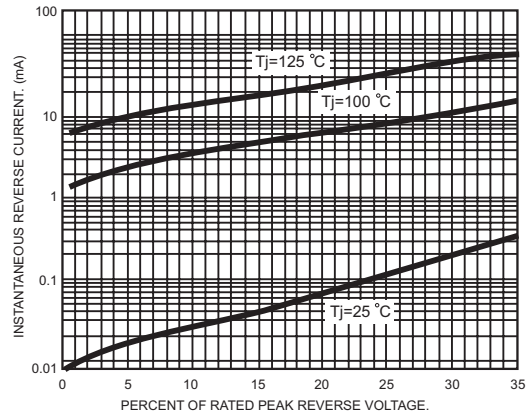


FIG.4- TYPICAL JUNCTION CAPACITANCE PER LEG

