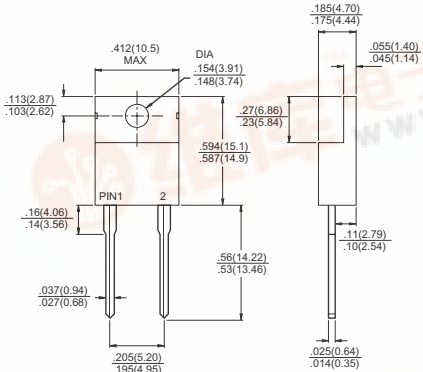


TSC 	SRA820 THRU SRA8200 8.0 AMPS. Schottky Barrier Rectifiers									
	Voltage Range 20 to 200 Volts Current 8.0 Amperes									
Features ✦ Low forward voltage drop ✦ High current capability ✦ High reliability ✦ High surge current capability	TO-220A  PIN 1 PIN 2 CASE Case Positive Dimensions in inches and (millimeters)									
Mechanical Data ✦ Cases: TO-220A molded plastic ✦ Epoxy: UL 94V-O rate flame retardant ✦ Terminals: Leads solderable per MIL-STD-202, Method 208 guaranteed ✦ Polarity: As marked ✦ High temperature soldering guaranteed: 260°C/10 seconds/.25", (6.35mm) from case ✦ Weight: 2.24 grams										
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	SRA 820	SRA 830	SRA 840	SRA 850	SRA 860	SRA 890	SRA 8100	SRA 8200	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	200	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{(AV)}$	8.0								A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150								A
Maximum Instantaneous Forward Voltage @8.0A	V_F	0.55		0.70		0.92		1.05		V
Maximum D.C. Reverse Current @ $T_c=25^{\circ}\text{C}$ at Rated DC Blocking Voltage @ $T_c=100^{\circ}\text{C}$	I_R	0.5 50						0.009 10		mA mA
Typical Thermal Resistance (Note 1)	$R \theta_{JC}$	4.0								°C/W
Typical Junction Capacitance (Note 2)	C_j	400		300		250		pF		
Operating Junction Temperature Range	T_J	-65 to +125				-65 to +150				°C
Storage Temperature Range	T_{STG}	-65 to +150								°C

Notes: 1. Thermal Resistance from Junction to Case Per Leg with Heat sink (2"x3"x0.25") Al-plate.
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES (SRA820 THRU SRA8200)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

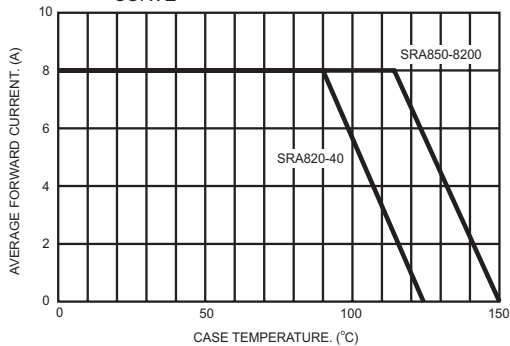


FIG. 3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

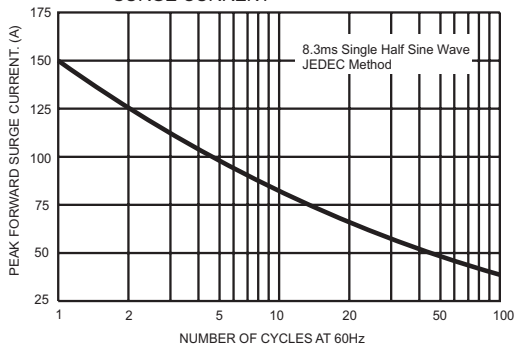


FIG. 4- TYPICAL JUNCTION CAPACITANCE

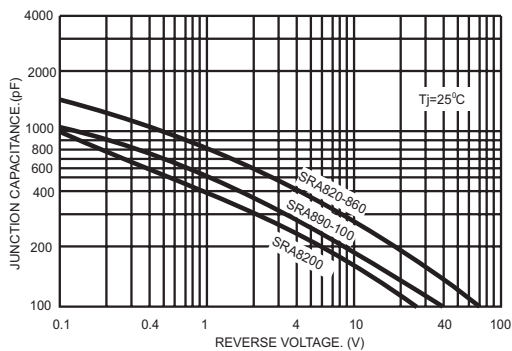


FIG. 2- TYPICAL REVERSE CHARACTERISTICS

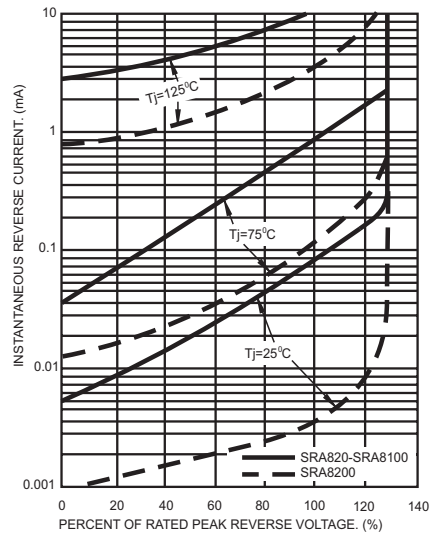


FIG. 5- TYPICAL FORWARD CHARACTERISTICS

