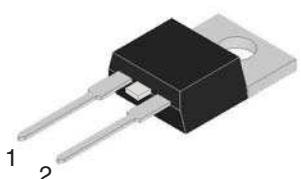
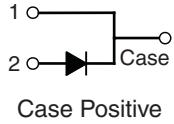


8.0 Amp. Schottky Barrier Rectifier

TO-220AC	Voltage 20 to 150 V	Current 8.0 A
  Case Positive	<ul style="list-style-type: none"> • Low power loss, high efficiency. • High current capability, Low VF. • High reliability • High surge current capability. • Epitaxial construction. • Guard-ring for transient protection. • For use in low voltage, high frequency inverter, free wheeling, and polarity protection application 	
Mechanical Data <ul style="list-style-type: none"> • Cases: TO-220AB molded plastic • Epoxy: UL 94V-0 rate flame retardant • Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed • Polarity: As marked • High temperature soldering guaranteed: 260°C/10 seconds, 6.35mm from case • Weight: 2.24 grams 		

Absolute Maximum Ratings, according to IEC publication No. 134

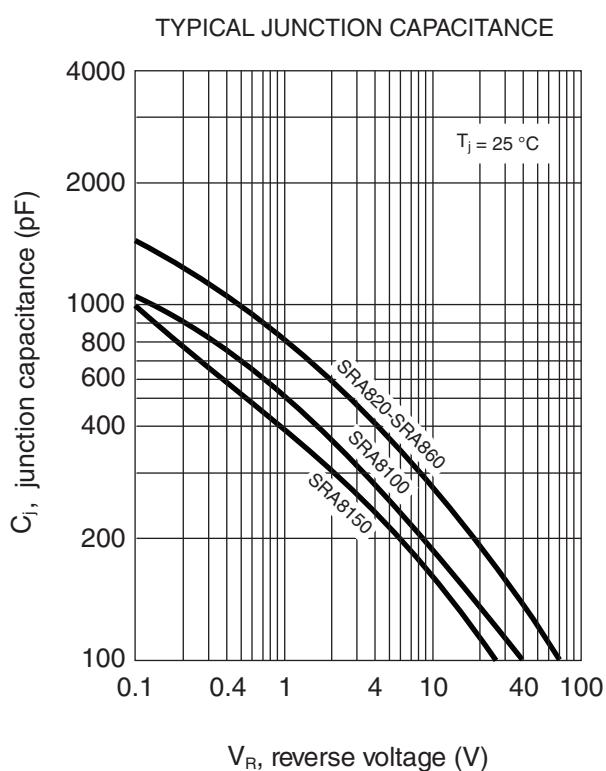
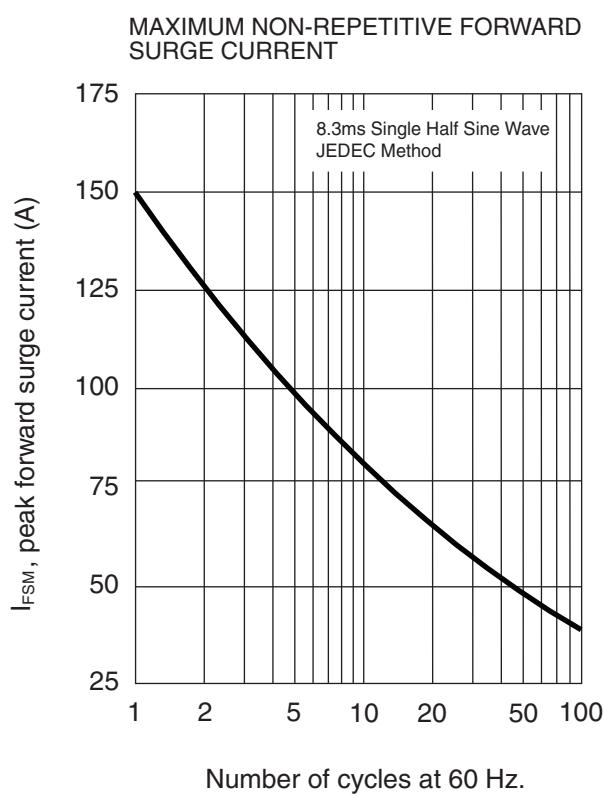
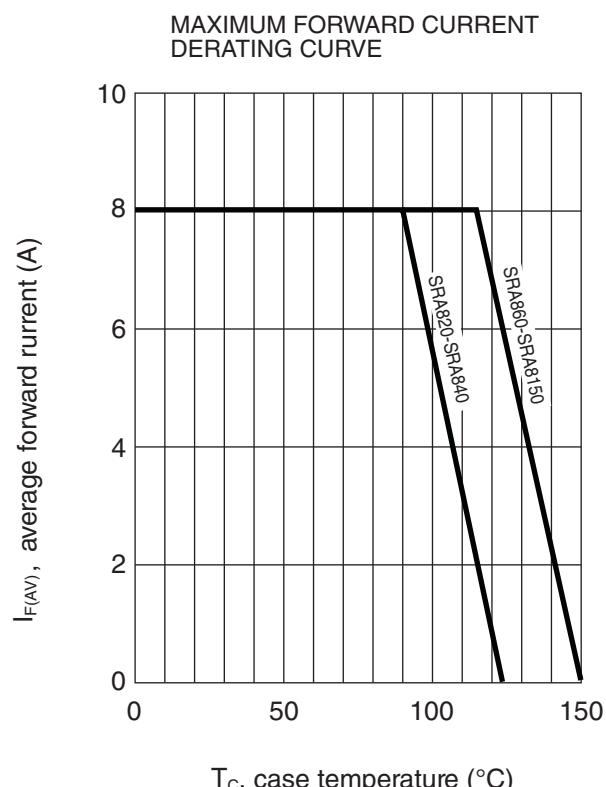
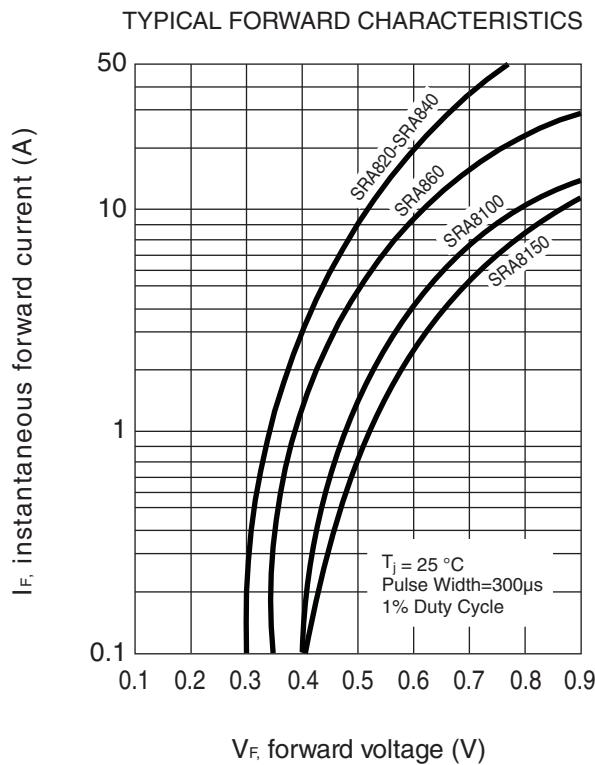
		SRA 820	SRA 840	SRA 860	SRA 8100	SRA 8150
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	20	40	60	100	150
V_{RMS}	Maximum RMS Voltage (V)	14	28	42	70	105
V_{DC}	Maximum DC blocking voltage (V)	20	40	60	100	150
$I_F (AV)$	Maximum Average Forward Rectified Current See Fig.	8.0 A				
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 A				
C_j	Typical Junction Capacitance at 1MHz and Applied Reverse Voltage of 4.0V D.C.	400 pF		300 pF		250 pF
T_j	Operating Junction Temperature Range	– 65 to + 125 °C		– 65 to + 150 °C		
T_{stg}	Storage Temperature Range	– 65 to + 150 °C				

Electrical Characteristics

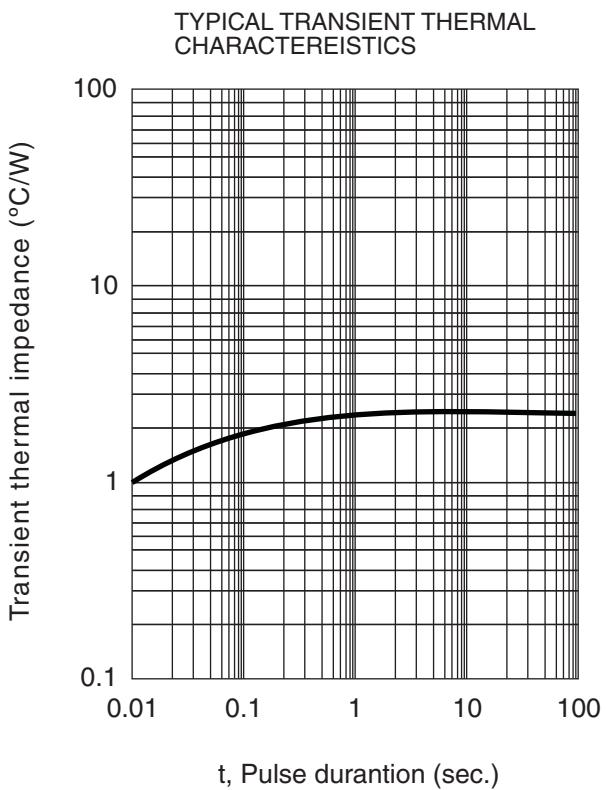
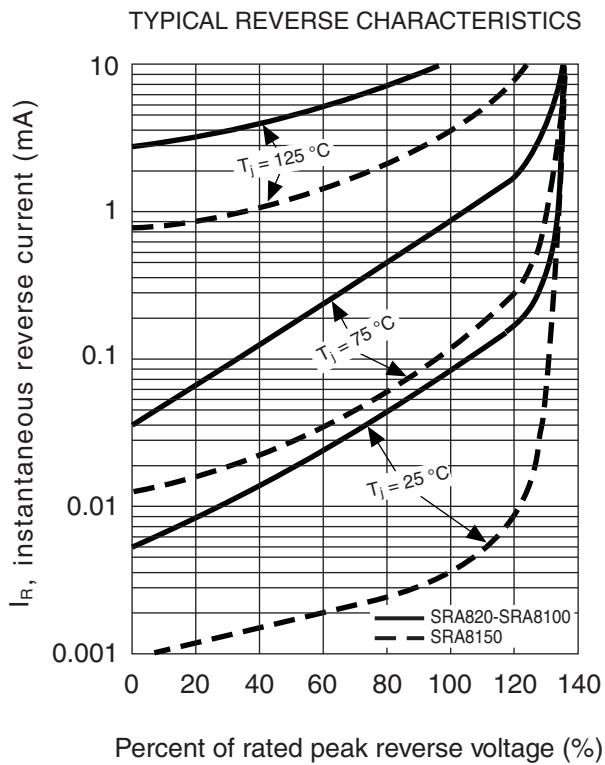
		SRA 820	SRA 840	SRA 860	SRA 8100	SRA 8150
V_F	Maximum Instantaneous Forward Voltage @ 8.0 A	0.55 V		0.70 V	0.92 V	1.05 V
I_R	Maximum D.C. Reverse Current @ $T_C=25^\circ\text{C}$	0.5 mA		0.1 mA		
	at Rated DC Blocking Voltage @ $T_C=125^\circ\text{C}$	15 mA	10 mA	5 mA		
R_{thj-c}	Typical Thermal Resistance (Note 1)	4.0 °C/W				

Notes: 1. Thermal Resistance from Junction to Case Per Leg WITH Heatsink of (50.4 mm x 76.2 mm x 6.35 mm) Al-Plate.

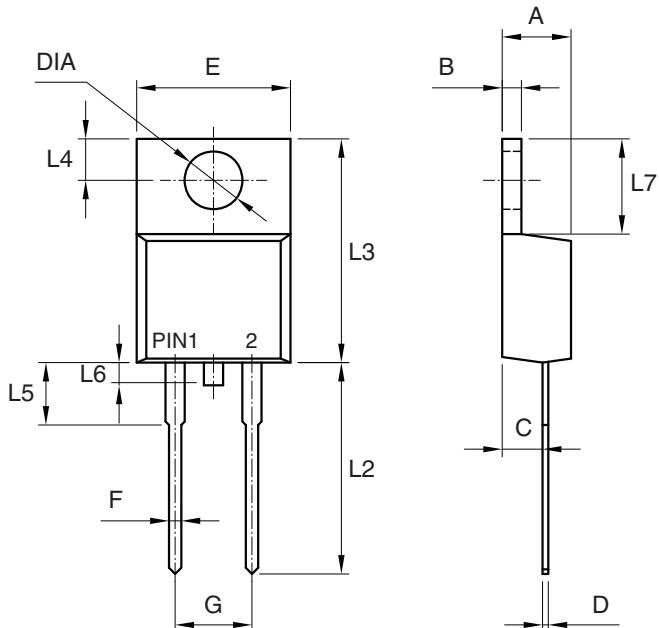
Rating And Characteristic Curves



Rating And Characteristic Curves



PACKAGE MECHANICAL DATA TO-220AC



REF.	DIMENSIONS	
	Milimeters	
	Min.	Max.
A	4.44	4.70
B	1.14	1.40
C	2.54	2.79
D	0.35	0.64
E	-	10.50
F	0.68	0.94
G	4.95	5.20
L2	13.46	14.22
L3	14.9	15.10
L4	2.62	2.87
L5	3.56	4.06
L6	-	1.60
L7	5.84	6.86
DIA	3.74	3.91