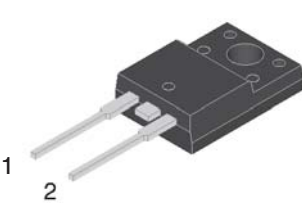
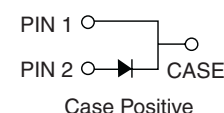




8.0 Amp. Schottky Barrier Rectifier

<h3 style="margin: 0;">ITO-220AC</h3>  <div style="text-align: center; margin-top: 20px;">  <p style="font-size: small;">Case Positive</p> </div>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Voltage 20 to 150 V</td> <td style="text-align: center;">Current 8.0 A</td> </tr> </table> <p>FEATURES</p> <ul style="list-style-type: none"> Ideal for automated placement Low power losses, high efficiency High surge current capability Guarding for overvoltage protection Low forward voltage drop Solder dip 260°C, 10s / 0.25" (6.35 mm) from case AEC-Q101 qualified Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC Meets MSL level 1, per J-STD-020, LF maximum peak of 260° C <div style="text-align: right; font-size: x-small;">   RoHS <small>COMPLIANT</small> </div> <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case: ITO-220AC. Epoxy meets UL 94V-0 flammability rating. Polarity: As marked on the body. Mounting Torque: 5 in-lbs maximum. Terminals: Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test. <p>TYPICAL APPLICATIONS</p> <p style="font-size: x-small;">Used in low voltage high frequency inverters, freewheeling, dc-to-dc converters, and polarity protection applications.</p>	Voltage 20 to 150 V	Current 8.0 A
Voltage 20 to 150 V	Current 8.0 A		

Maximun Ratings and Electrical Characteristics at 25°C

		SRAF 820	SRAF 840	SRAF 860	SRAF 8100	SRAF 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 4V D.C.	430 pF		360 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 at Tamb = 25 °C

V_F	Maximum Instantaneous Forward Voltage @8.0A	0.55 V	0.70 V	0.85 V	0.95 V
I_R	Maximum D.C. Reverse Current @Tc = 25 °C at Rated DC Blocking Voltage @Tc = 100 °C	0.5 mA		0.1 mA	
		15 mA	10 mA	5.0 mA	
R_{thj-c}	Typical Thermal Resistance (Note 1)	5.0 °C/W			

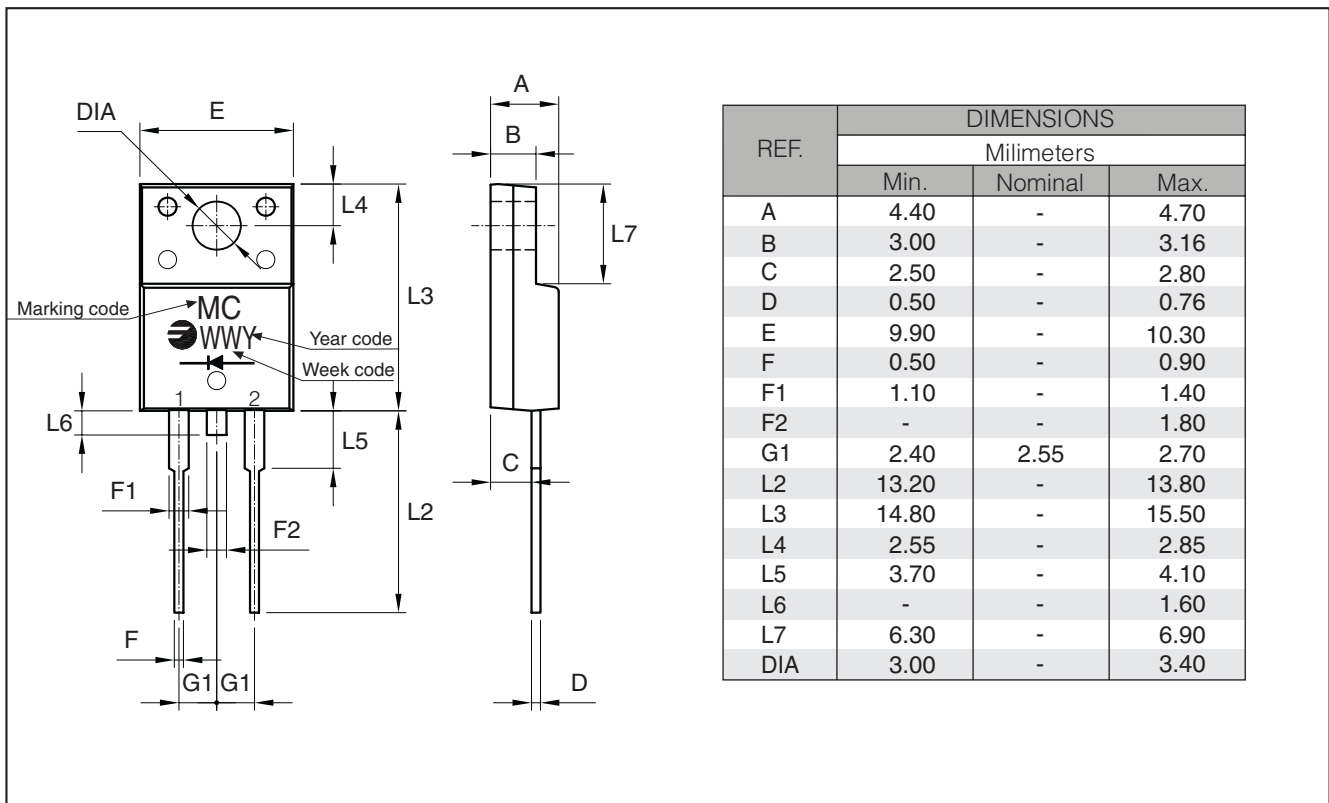
Notes: 1. Thermal Resistance from Junction to case Per Leg

8.0 Amp. Schottky Barrier Rectifier

Ordering information

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
SRAF860 00TUC	TU	TUBE	1,000	2.02

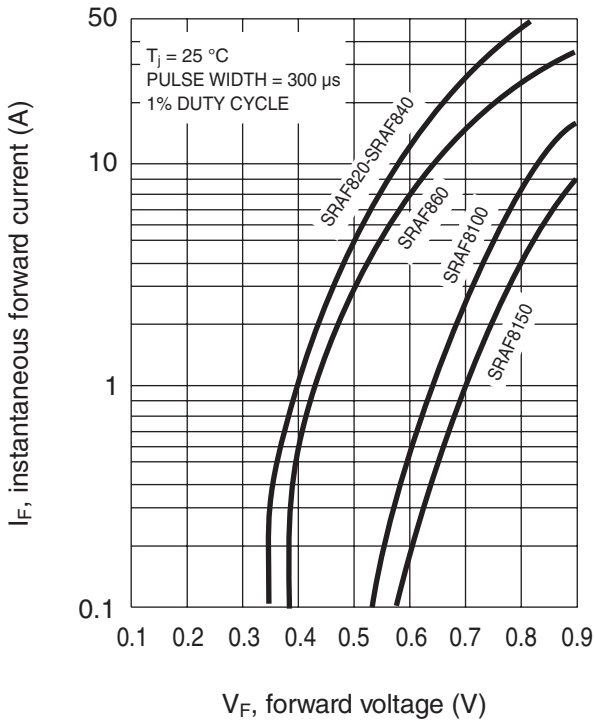
Package Outline Dimensions: (mm) ITO-220AC



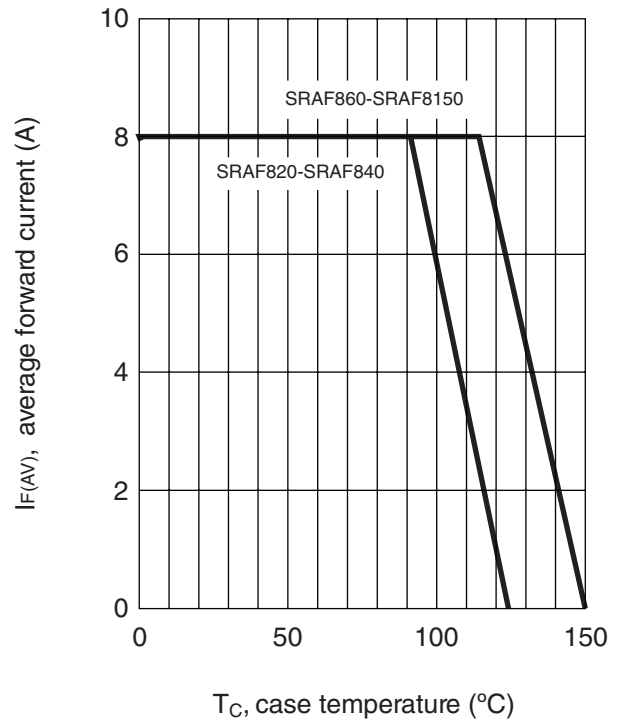
8.0 Amp. Schottky Barrier Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)

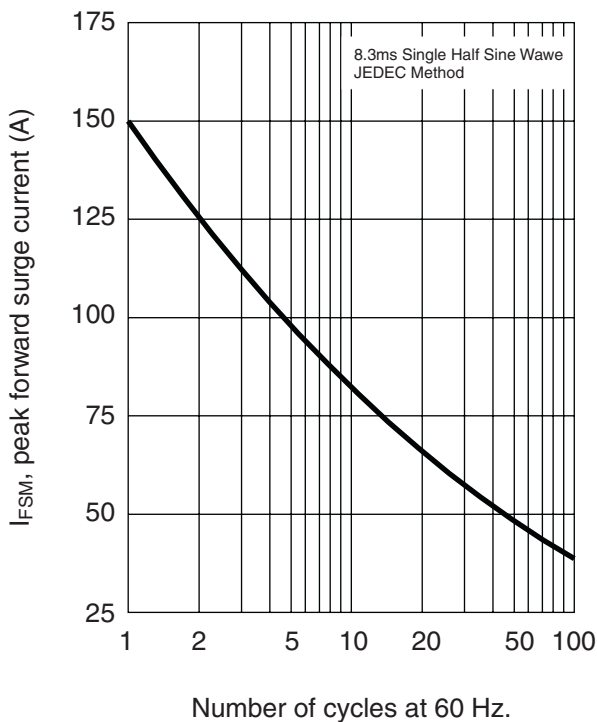
TYPICAL FORWARD CHARACTERISTICS



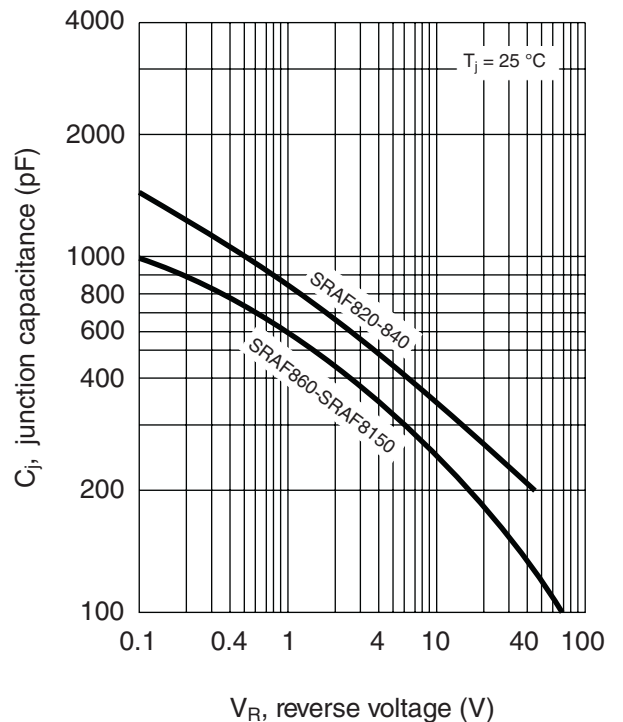
MAXIMUM FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



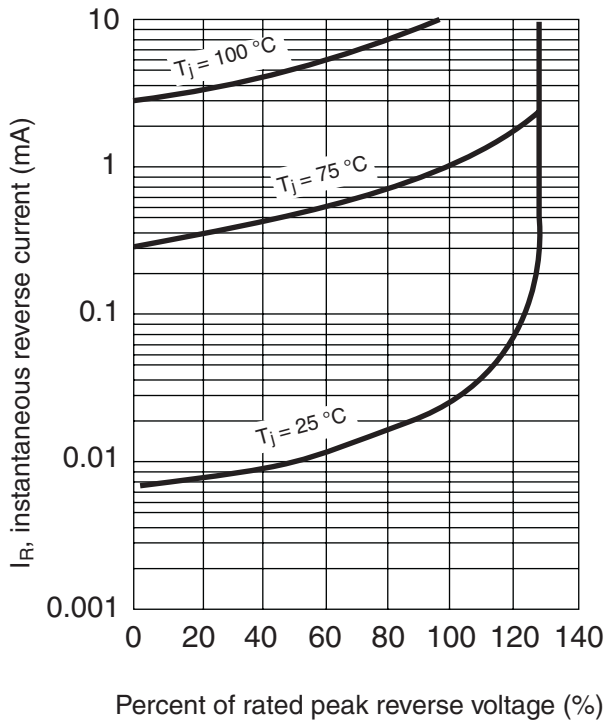
TYPICAL JUNCTION CAPACITANCE



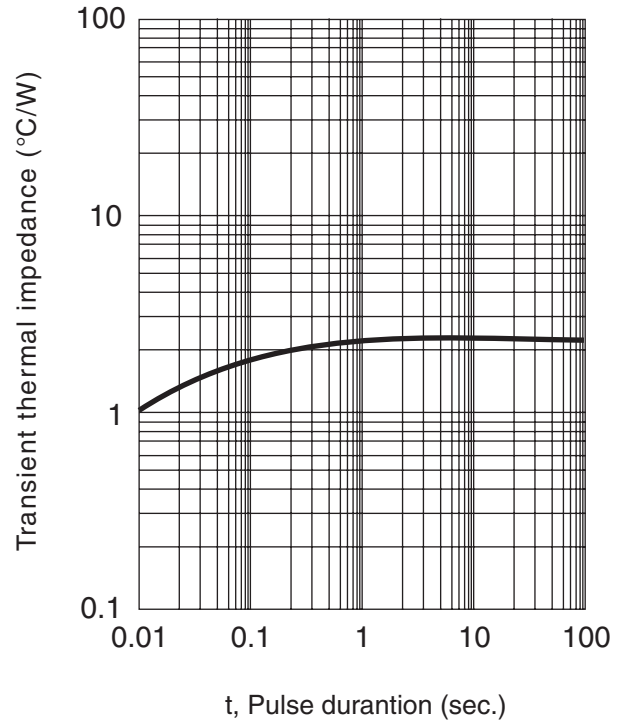
8.0 Amp. Schottky Barrier Rectifier

Ratings and Characteristics (Ta 25 °C unless otherwise noted)

TYPICAL REVERSE CHARACTERISTICS



TYPICAL TRANSIENT THERMAL CHARACTERISTICS



8.0 Amp. Schottky Barrier Rectifier**Revision History**

Date	Revision	Description of Changes
14-Jul-2009	0	Original Data Sheet
3-Oct-2016	1	Format update

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