



# SRAF1620 - SRAF16100

Isolated 16.0 AMPS. Schottky Barrier Rectifiers

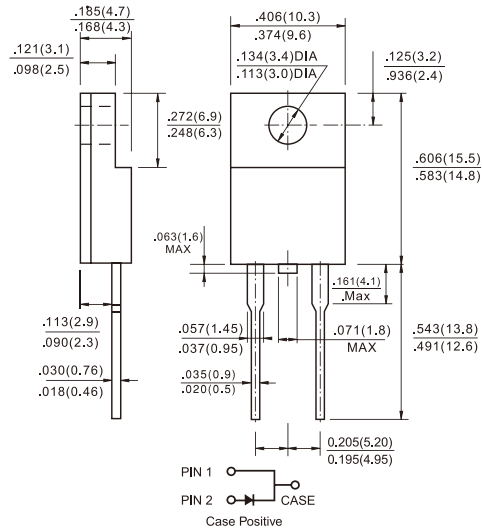
## ITO-220AC

### Features

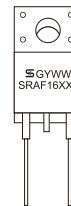
- ✧ UL Recognized File # E-326243
- ✧ Isolated Plastic package.
- ✧ Low power loss, high efficiency.
- ✧ High current capability, Low VF.
- ✧ High reliability
- ✧ High surge current capability.
- ✧ Epitaxial construction.
- ✧ Guard-ring for transient protection.
- ✧ For use in low voltage, high frequency inverter, free wheeling, and polarity protection application
- ✧ Green compound with suffix "G" on packing code & prefix "G" on datecode.

### Mechanical Data

- ✧ Cases: ITO-220AC 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.25", (6.35mm) from case.
- ✧ Weight: 1.70 grams
- ✧ Mounting torque: 5 in – 1bs. max.



Dimensions in inches and (millimeters)  
Marking Diagram



SRAF16XX = Specific Device Code  
G = Green Compound  
Y = Year  
WW = Work Week

### 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	SRAF 1620	SRAF 1630	SRAF 1640	SRAF 1650	SRAF 1660	SRAF 1690	SRAF 16100	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	90	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	$I_{F(AV)}$	16							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )	$I_{FSM}$	275							A
Maximum Instantaneous Forward Voltage @16.0A	$V_F$	0.55		0.70		0.92		V	
Maximum D.C. Reverse Current at Rated DC Blocking Voltage (Note1)	$I_R$	@ $T_A=25^\circ C$					0.1		mA
		@ $T_A=100^\circ C$					15		
		@ $T_A=125^\circ C$					10		mA
Typical Junction Capacitance (Note 2)	$C_j$	850		580		480		pF	
Typical Thermal Resistance (Note3 )	$R_{\theta JC}$	4.0							°C/W
Operating Junction Temperature Range	$T_J$	-65 to +125			-65 to +150				°C
Storage Temperature Range	$T_{STG}$	-65 to +150							°C

Notes: 1. Pulse Test: 300us Pulse Width, 1% Duty Cycle  
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.  
3. Mounted on Heatsink Size of (2"x3"x0.25") Al-Plate.

### RATINGS AND CHARACTERISTIC CURVES (SRAF1620 THRU SRAF16100)

