





Features

- ♦ UL Recognized File # E-326243
- ♦ 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 inventor, free wheeling, and polarity protection application
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

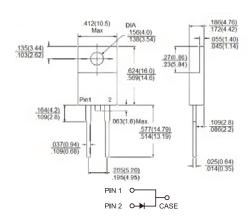
Mechanical Data

- ♦ Epoxy: UL 94V-0 rate flame retardant
- Terminals: Pure tin plated, lead free. solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed: 260°C/10 seconds.25",(6.35mm) from case.
- Weight: 1.87grams

SRA1620 - SRA16100

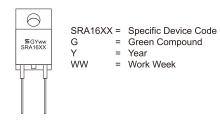
16.0 AMPS. Schottky Barrier Rectifiers

TO-220AC



Dimensions in inches and (millimeters)

Marking Diagram



Version: F10

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%

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Type Number	Symbol	SRA 1620	SRA 1630	SRA 1640	SRA 1650	SRA 1660	SRA 1690	SRA 16100	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	90	100	V
Maximum RMS Voltage	VRMS	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						Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I FSM	200						А	
Maximum Instantaneous Forward Voltage @16.0	A VF	0.55 0.70			0.92		V		
Maximum D.C. Reverse @ TA=25 °C		0.5 0.1					.1	mA	
Current at Rated DC @ TA=100 °C	I R		15	10		0	_		mA
Blocking Voltage (Note1) @ Ta=125 °C		- 5.0					.0	mA	
Typical Junction Capacitance (Note 2)	Cj	700		550		48	30	pF	
Typical Thermal Resistance (Note 3)	Rejc	5.0					°C/W		
Operating Junction Temperature Range	TJ	-65 to +125 -65 to +150				°C			
Storage Temperature Range	Tstg	-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" x 3" x 0.25" Al-Plate.



RATINGS AND CHARACTERISTIC CURVES (SRA1620 THRU SRA16100)

