



SRAF1620 THRU SRAF1660

Isolation 16.0 AMPS. Schottky Barrier Rectifiers



Voltage Range
20 to 60 Volts
Current
16.0 Amperes

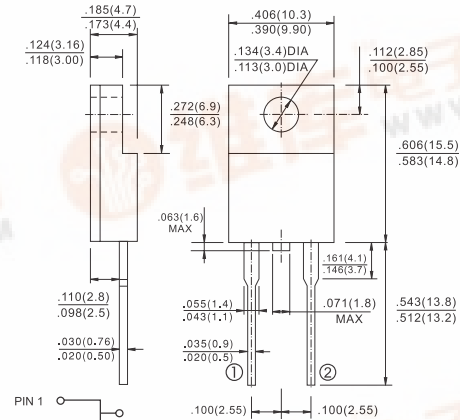
Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Mechanical Data

- Cases: ITO-220AC 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
- Mounting torque: 5 in – 1bs. max.

ITO-220AC



Dimensions in inches and (millimeters)

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	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	16.0					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		V
Maximum D.C. Reverse Current @ Tc=25℃ at Rated DC Blocking Voltage @ Tc=100℃	I _R	1.0 50					mA mA
Typical Thermal Resistance (Note 1)	RθJC	4.0					℃/W
Typical Junction Capacitance (Note 2)	Cj	850			580		pF
Operating Junction Temperature Range	T _J	-65 to +125			-65 to +150		℃
Storage Temperature Range	T _{STG}	-65 to +150					℃

Notes: 1. Mounted on Heatsink Size of 2 in x 3 in x 0.25 in Al-Plate.

2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.



RATINGS AND CHARACTERISTIC CURVES (SRAF1620 THRU SRAF1660)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

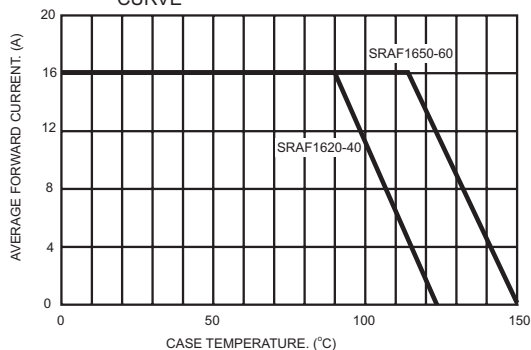


FIG.2- TYPICAL REVERSE CHARACTERISTICS

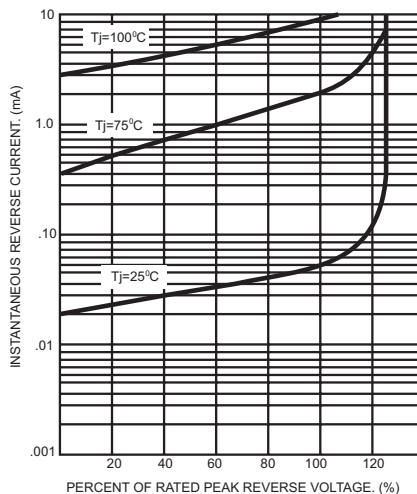


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

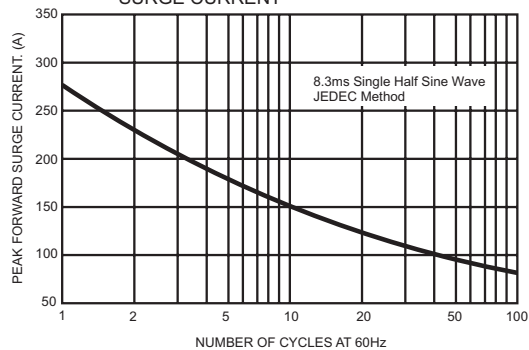


FIG.5- TYPICAL FORWARD CHARACTERISTICS

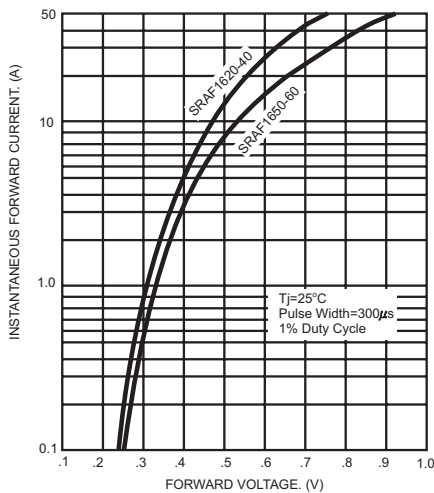


FIG.4- TYPICAL JUNCTION CAPACITANCE

