SRAF1020 THRU SRAF1090

Isolation 10.0 AMPS. Schottky Barrier Rectifiers

Voltage Range
20 to 90 Volts
Current
10.0 Amperes

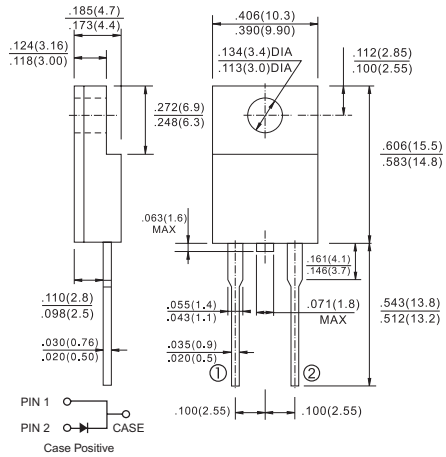
Features

- ✧ 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: Lead 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℃ 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 1020	SRAF 1030	SRAF 1040	SRAF 1050	SRAF 1060	SRAF 1090	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	V
Maximum Average Forward Rectified Current @Tc=110℃	$I_{(AV)}$	10.0						A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	250						A
Maximum Instantaneous Forward Voltage 10.0A	V_F	0.55			0.70		0.75	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)	$R\theta_{JC}$	4.0						℃/W
Typical Junction Capacitance (Note 2)	Cj	420			280		165	pF
Operating Junction Temperature Range	T_J	-65 to +125			-65 to +150			℃
Storage Temperature Range	T_{STG}	-65 to +150						℃

Notes: 1. Thermal Resistance from Junction to Case Per Leg
2. Measured at 1MHz and Applied Reverse Voltage of 4.0V D.C.
3. Mounted on Heatsink Size of 2 in x 3 in x 0.25 in Al-Plate.

RATINGS AND CHARACTERISTIC CURVES (SRAF1020 THRU SRAF1090)

FIG.1- FORWARD CURRENT DERATING CURVE

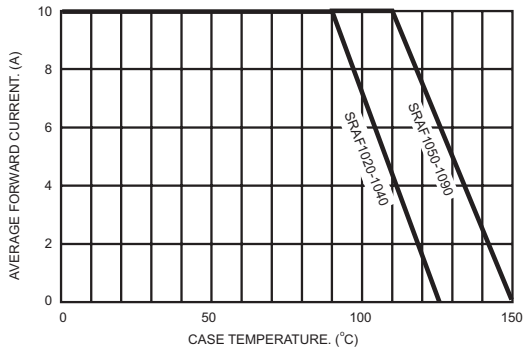


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

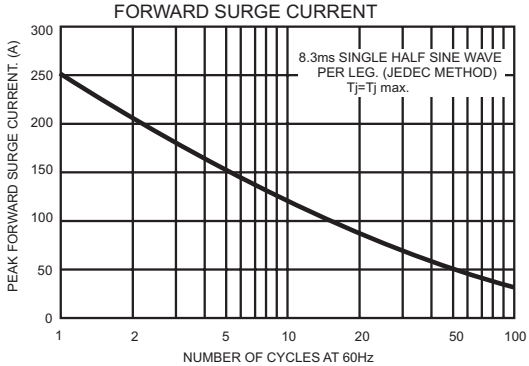


FIG.3- TYPICAL REVERSE CHARACTERISTICS

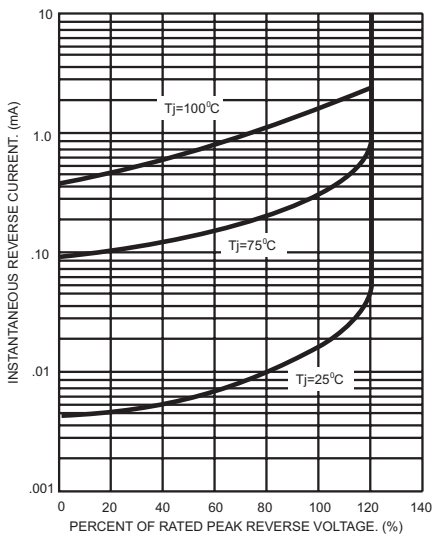


FIG.4- TYPICAL FORWARD CHARACTERISTICS

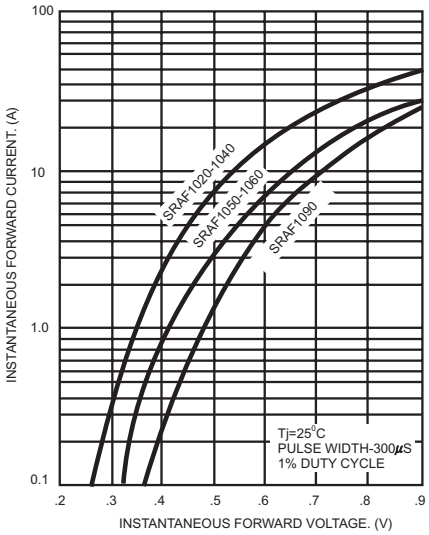


FIG.5- TYPICAL JUNCTION CAPACITANCE