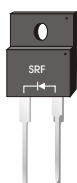


SRF820 THRU SRF8200



8.0 AMP SCHOTTKY BARRIER RECTIFIERS



FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any
- * Weight: 2.24 grams
- * Both normal and Pb free product are available:
- * Normal: 80~95%Sn, 5~20%Pb
- * Pb free: 99 Sn above can meet Rohs environment substance directive request

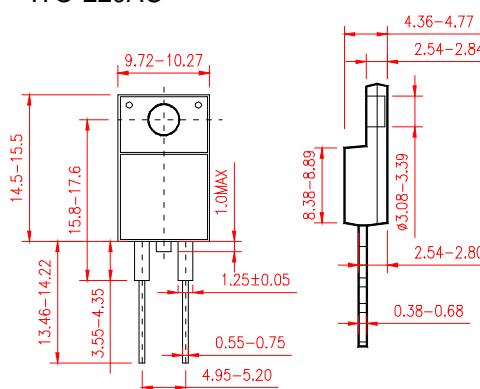
VOLTAGE RANGE

20 to 200 Volts

CURRENT

8.0 Amperes

ITO-220AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	SRF820	SRF830	SRF840	SRF850	SRF860	SRF880	SRF8100	SRF8200	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	200	V
Maximum RMS Voltage	14	21	28	35	42	56	70	140	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	200	V
Maximum Average Forward Rectified Current									A
See Fig. 1									8.0
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)									150
Maximum Instantaneous Forward Voltage at 8.0A	0.65		0.75		0.85		0.95		V
Maximum DC Reverse Current	Ta=25 °C				0.5				mA
at Rated DC Blocking Voltage	Ta=100 °C				50				mA
Typical Junction Capacitance (Note1)	700				460				pF
Typical Thermal Resistance R	θJC (Note 2)				3.0				°C/W
Operating Temperature Range T	J				-65—+125				°C
Storage Temperature Range T	STG				-65 —+150				°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SRF820 THRU SRF8200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

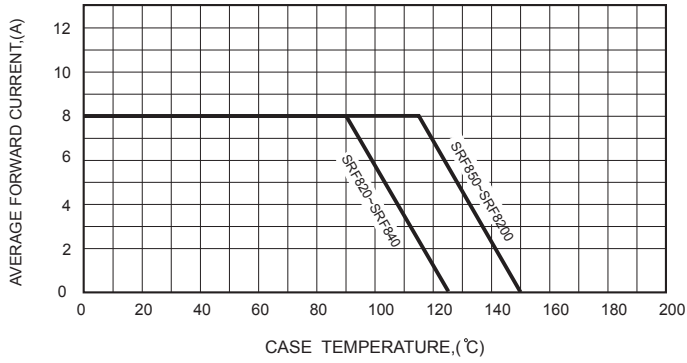


FIG.2-TYPICAL FORWARD CHARACTERISTICS

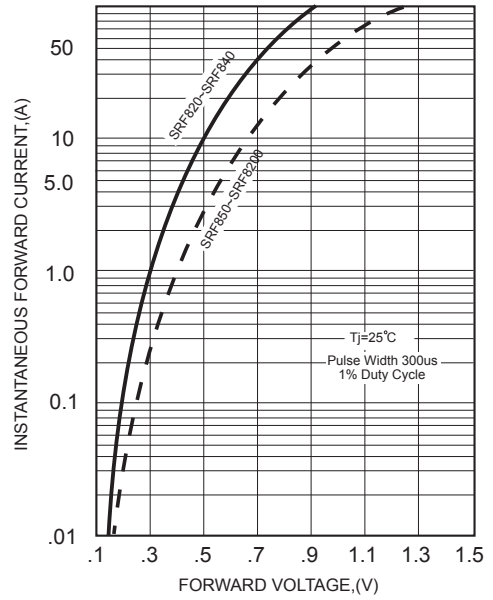


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

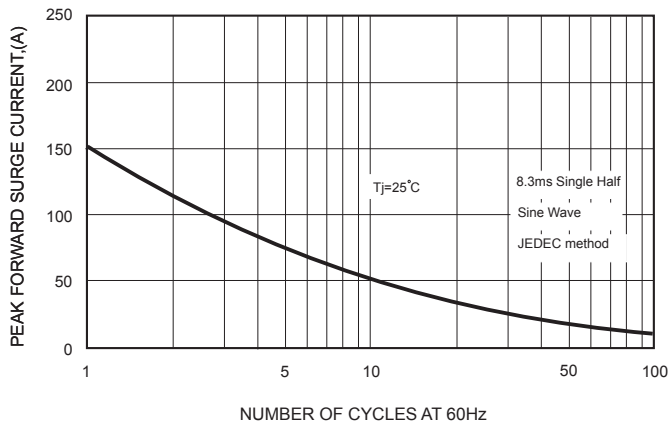


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

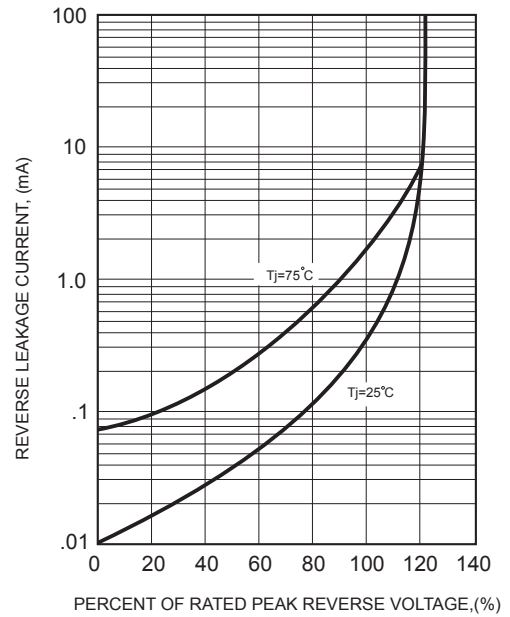


FIG.4-TYPICAL JUNCTION CAPACITANCE

