SRF820 THRU SRF8100

SCHOTTKY BARRIER RECTIFIERS

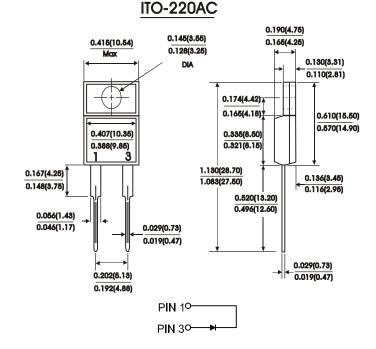
FEATURES:

- Plastic package Underwriters Laboratory
 Flammability Classification 94V-0
- Metal silicon junction
 Majority carrier conduction
- Low powerloss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case: JEDEC ITO-220AC molded plastic
Teminals: Leads solderable per Mil-STD-750

Method 2026
Polarity: As marked
Mounting Postition: Any
Mounting Torque 5 In - Ibs.max
Weight: 0.08 ounce, 2.24 grams



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%.

Characteristic	Symbol	SRF 820	SRF 830	SRF 835	SRF 840	SRF 845	SRF 850	SRF 860	SRF 880	SRF 8100	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	25	28	32	35	42	56	70	Volts
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	80	100	Volts
Maximum average forward rectified current at See fig. 1	I _(AV)	8.0								Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150								Amps	
Maximum instantaneous forward voltage (NOTE 2) $IF=8.0A$	VF	0.63 0.73 0.85					.85	Volts			
$\begin{array}{c} \text{Maximum instantaneous reverse} \\ \text{current at rated DC blocking} \\ \text{voltage (NOTE 2)} \\ \end{array} \qquad \begin{array}{c} \text{Tc} = 25 ^{\circ}\!\!\text{C} \\ \text{Tc} = 125 ^{\circ}\!\!\text{C} \end{array}$	IR	0.5 50								mA	
Typical thermal resistance(NOTE 1)	R _{th} -JC		5.0								
Operating temperature range	TJ	-65to+150								$^{\circ}\!\mathbb{C}$	
Storage temperature range	T _{Stg}	-65to+150								$^{\circ}\!\mathbb{C}$	

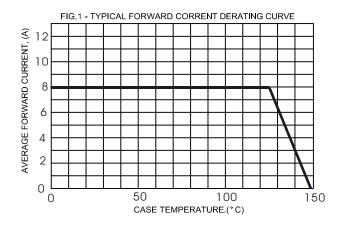
NOTES:

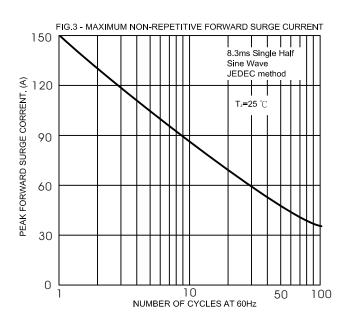
(1)Thermal resistance from junction to case

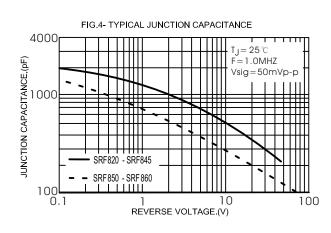
(2) Pulse test: 300 us pulse width, 1% duty cycle

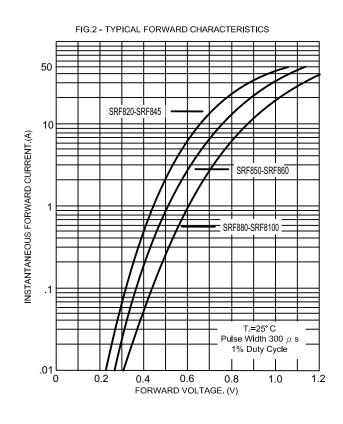


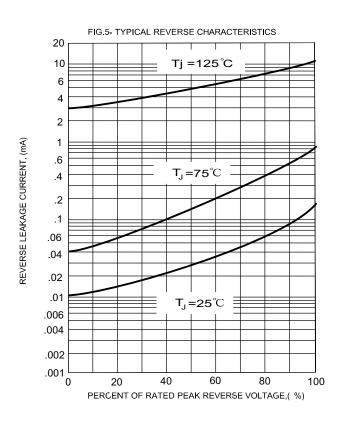
RATINGS AND CHARACTERISTIC CURVES











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