

### **SRF830 thru SRF8100**

### **SCHOTTKY BARRIER RECTIFIERS**

REVERSE VOLTAGE - 30 to 100 Volts FORWARD CURRENT - 8.0 Amperes

### **FEATURES**

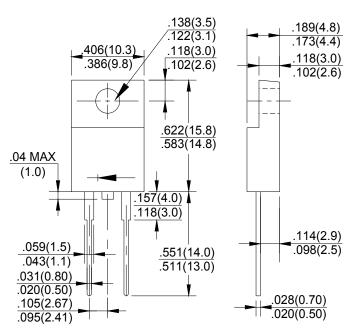
- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- ●High current capability,low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

#### **MECHANICAL DATA**

Case: ITO-220AC molded plastic
Polarity: As marked on the body
Weight: 0.08ounces,2.24 grams

Mounting position :Any

## ITO-220AC



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SRF830	SRF840	SRF850	SRF860	SRF880	SRF8100	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	40	50	60	80	100	V
Maximum RMS Voltage	VRMS	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	V
Maximum Average Forward  Rectified Current (See Fig.1) @Tc=95 ℃	I(AV)	8.0						Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	150						А
Peak Forward Voltage at 8.0A DC (Note1)	VF	0.55		0.	0.70		85	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Bolcking Voltage @TJ=100℃	lR	1.0 50					mA	
Typical Junction Capacitance (Note2)	CJ	450						pF
Typical Thermal Resistance (Note3)	Rejc	3.0						°C/W
Operating Temperature Range	TJ	-55 to +150						$^{\circ}\!\mathbb{C}$
Storage Temperature Range	Tstg	-55 to +150						$^{\circ}$

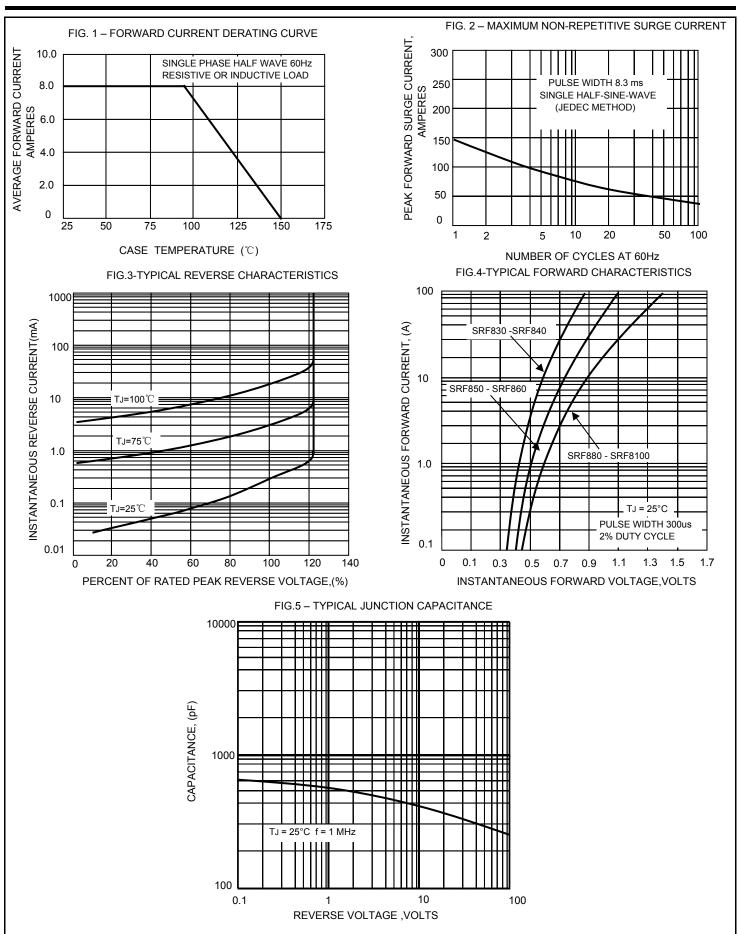
NOTES:1.300us pulse width,2% duty cycle.

- 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case.
- 4.The typical data above is for reference only(典型值仅供参考).

Rev. 7, 16-Mar-2017

# RATING AND CHARACTERTIC CURVES SRF830 thru SRF8100





|The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

Rev. 7, 16-Mar-2017



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