



SRF2030CT thru SRF20150CT

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 100Volts FORWARD CURRENT - 20.0 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ●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 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ●Case: ITO-220AB molded plastic ●Polarity: As marked on the body ●Weight: 0.08ounces,2.24 grams ●Mounting position :Any 	<p>ITO-220AB</p> <p style="text-align: center;">Dimensions in inches and (millimeters)</p>

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave ,60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SRF 2030CT	SRF 2040CT	SRF 2050CT	SRF 2060CT	SRF 2080CT	SRF 20100CT	SRF 20150CT	UNIT	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	30	40	50	60	80	100	150	V	
Maximum RMS Voltage	V _{RMS}	21	28	35	42	56	70	105	V	
Maximum DC Blocking Voltage	V _{DC}	30	40	50	60	80	100	150	V	
Maximum Average Forward Rectified Current (See Fig.1) @T _C =95 °C	I _(AV)	20							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	250							A	
Peak Forward Voltage at 10.0A DC(Note1)	V _F	0.55	0.70		0.85		0.95		V	
Maximum DC Reverse Current at Rated DC Bolcking Voltage @T _J =25°C @T _J =100°C	I _R	1.0				50				mA
Typical Junction Capacitance (Note2)	C _J	600							pF	
Typical Thermal Resistance (Note3)	R _{θJC}	2.0							°C/W	
Operating Temperature Range	T _J	-55to+125							°C	
Storage Temperature Range	T _{STG}	-55to+150							°C	

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.

RATING AND CHARACTERISTIC CURVES
SRF2030CT thru SRF20150CT



FIG. 1 – FORWARD CURRENT DERATING CURVE

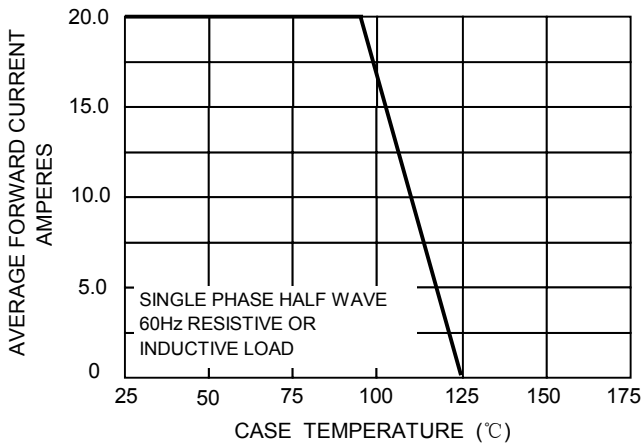


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

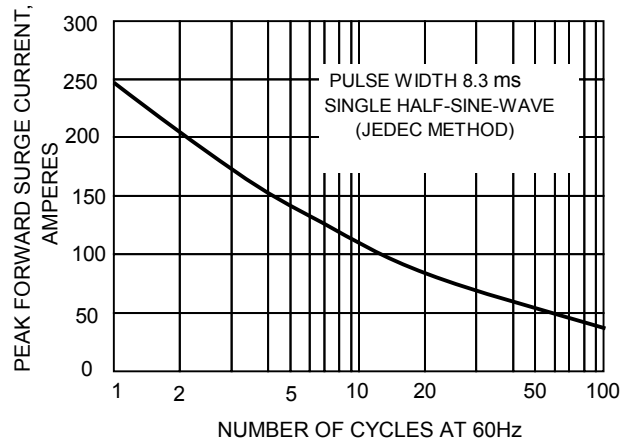


FIG.3-TYPICAL REVER CHARACTERISTICS

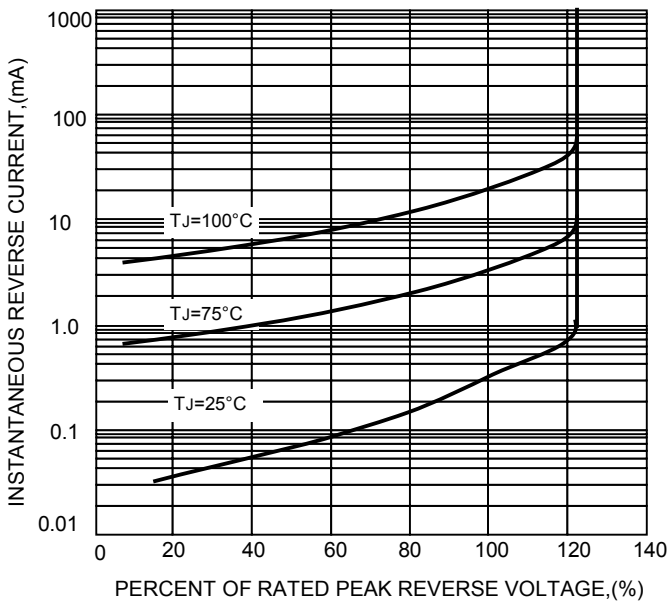


FIG.4-TYPICAL FORWARD CHARACTERISTICS

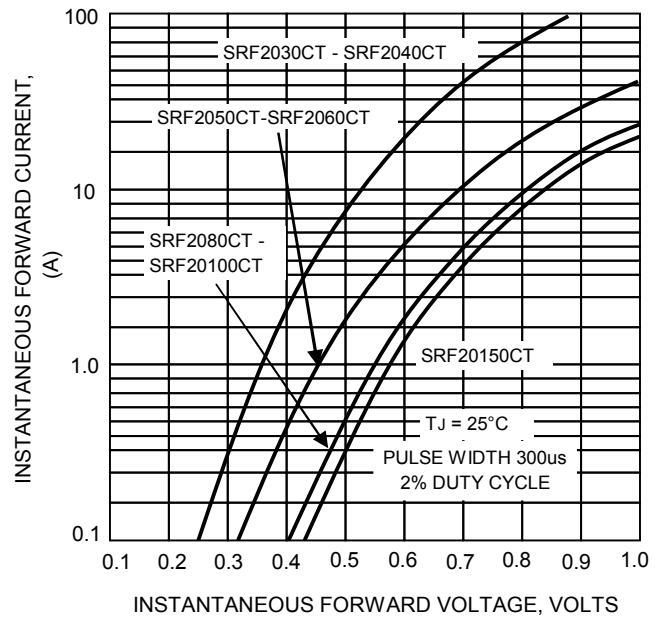


FIG.5 – TYPICAL JUNCTION CAPACITANCE

