

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE: 20 --- 200 V

CURRENT:10.0A

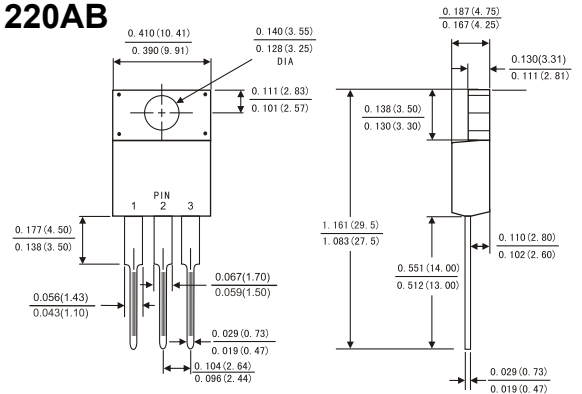
FEATURES

- ◇ Metal-semiconductor junction with guard ring
- ◇ Epitaxial construction
- ◇ Low forward voltage drop,low switching losses
- ◇ High surge capability
- ◇ For use in low voltage,high frequency inverters free wheeling,and polarity protection applications
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case:JEDEC ITO-220AB ,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-750,Method 2026
- ◇ Polarity: As marked
- ◇ Weight: 0.08ounces,2.24 grams
- ◇ Mounting position: Any

ITO - 220AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

	Symbols	SRF 1020CT	SRF 1030CT	SRF 1040CT	SRF 1050CT	SRF 1060CT	SRF 1080CT	SRF 10A0CT	SRF 10150CT	SRF 10200CT	Units	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts	
Maximum average forward rectified current(see Fig.1)	Per leg	5.0									Amps	
	Total device	10.0										
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150									Amps	
Maximum instantaneous forward voltage at 10.0 A(Note 1)	V _F	0.60			0.75		0.85		0.90		0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _A = 25°C	0.2									mA	
	T _A = 125°C	15			50							
Typical thermal resistance (Note 2)	R _{θJC}	2.5									°C/W	
Operating junction temperature range	T _J	-65 to +150									°C	
Storage temperature range	T _{STG}	-65 to +150									°C	

- NOTE: 1. Pulse test:300us pulse width,1% duty cycle.
 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3. Thermal resistance junction to ambient

FIG.1-FORWARD CURRENT DERATING CURVE

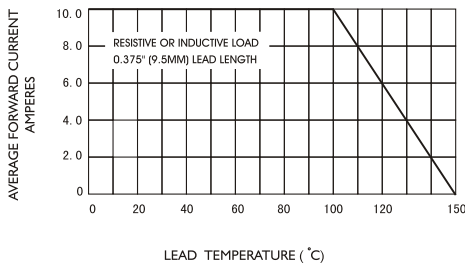


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

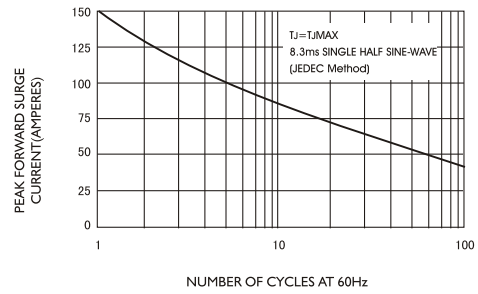


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

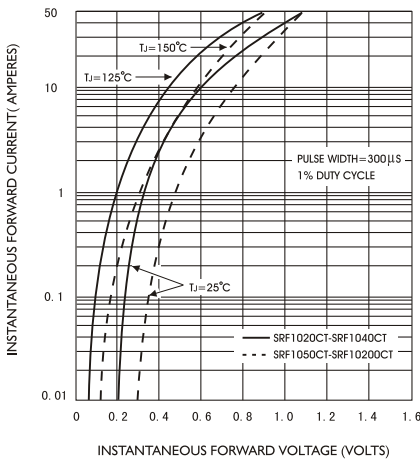


FIG.4-TYPICAL REVERSE CHARACTERISTICS

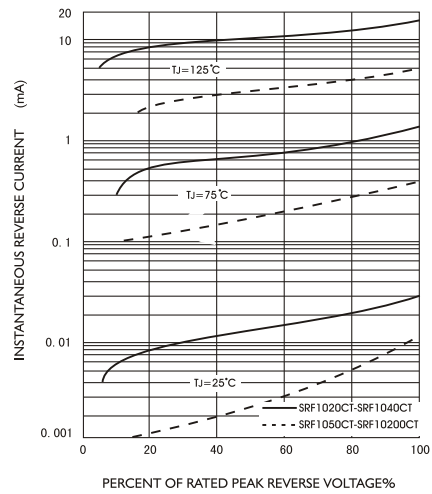


FIG.5-TYPICAL JUNCTION CAPACITANCE

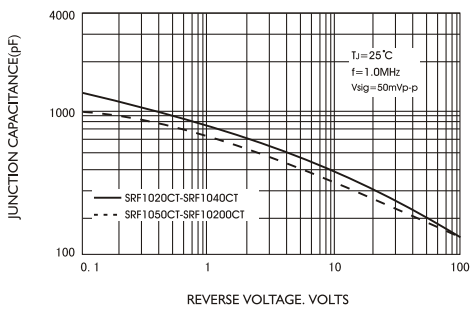


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

