



SRF1630CT thru SRF16150CT

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - **30 to 150**Volts
FORWARD CURRENT - **16.0** Amperes

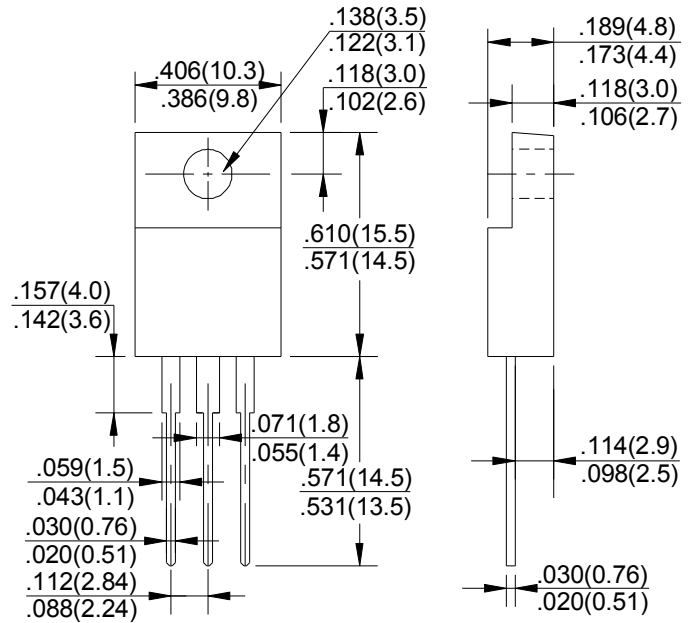
FEATURES

- 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-220AB molded plastic
- Polarity: As marked on the body
- Weight: 0.08ounces,2.24 grams
- Mounting position :Any

ITO-220AB



Dimensions in inches and (millimeters)

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 1630CT	SRF 1640CT	SRF 1650CT	SRF 1660CT	SRF 1680CT	SRF 16100CT	SRF 16150CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	30	40	50	60	80	100	150	V
Maximum RMS Voltage	VRMS	21	28	35	42	56	70	105	V
Maximum DC Blocking Voltage	VDC	30	40	50	60	80	100	150	V
Maximum Average Forward Rectified Current (See Fig.1) @Tc=95 ℃	l(AV)	16							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	lFSM	150							A
Peak Forward Voltage at 8.0A DC(Note1)	VF	0.55		0.70		0.85		0.95	V
Maximum DC Reverse Current @Tj=25℃ at Rated DC Bolcking Voltage @Tj=100℃	lR	1.0 50							mA
Typical Junction Capacitance (Note2)	CJ	350							pF
Typical Thermal Resistance (Note3)	RθJC	2.5							℃/W
Operating Temperature Range	TJ	-55 to +125							℃
Storage Temperature Range	TSTG	-55 to +150							℃

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.



FIG. 1 – FORWARD CURRENT DERATING CURVE

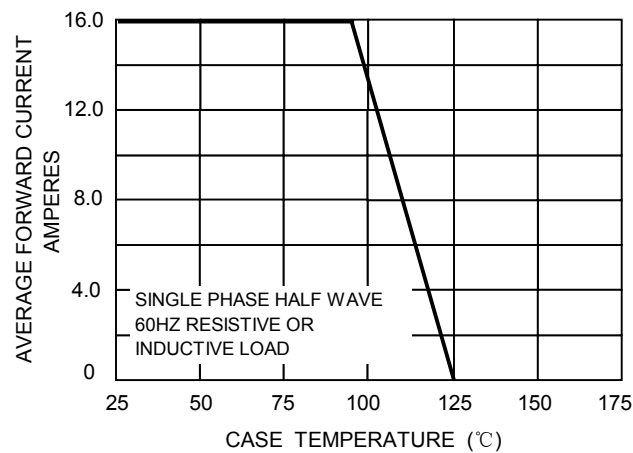


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

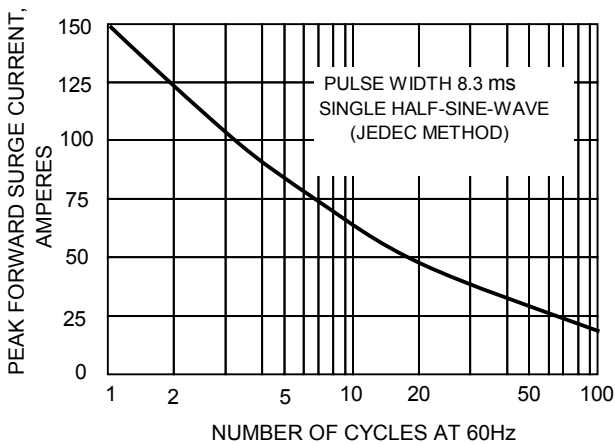


FIG.3-TYPICAL REVER CHARACTERISTICS

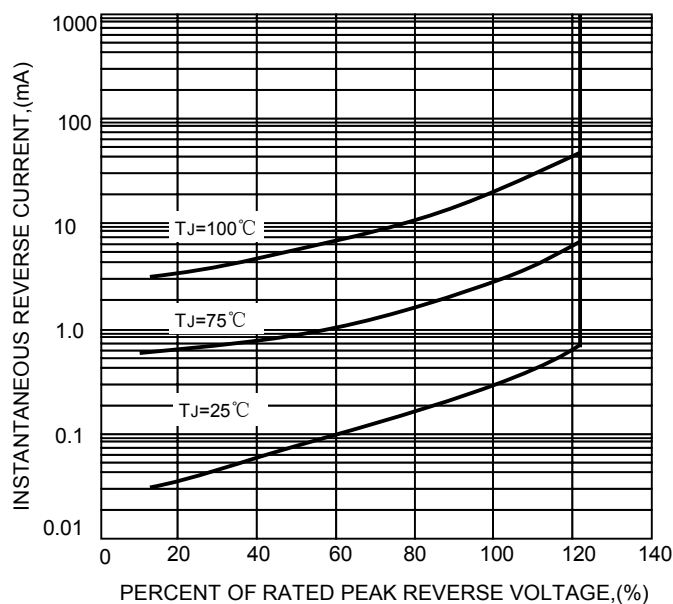


FIG.4-TYPICAL FORWARD CHARACTERISTICS

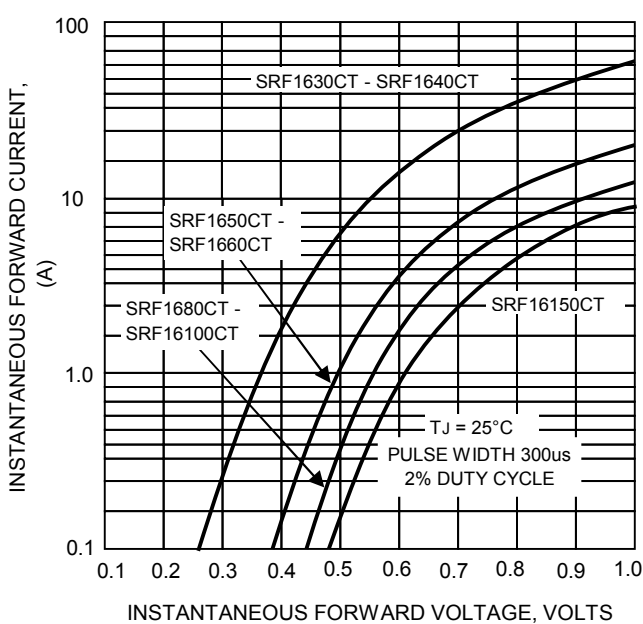


FIG.5 – TYPICAL JUNCTION CAPACITANCE

