

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 150Volts FORWARD CURRENT - 16.0 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>								
<p>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</p> <p>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%</p>									
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 °C	I(AV)	16							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	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°C at Rated DC Blocking Voltage @Tj=100°C	IR	1.0							mA
Typical Junction Capacitance (Note2)	CJ	350							pF
Typical Thermal Resistance (Note3)	RθJC	2.5							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	TSTG	-55 to +150							°C
<p>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.</p>									



FIG. 1 – FORWARD CURRENT DERATING CURVE

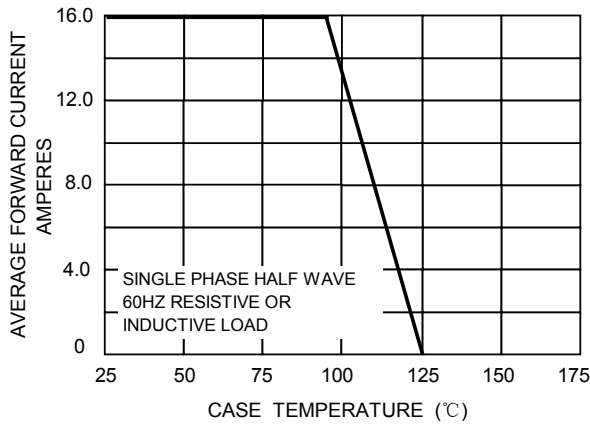


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

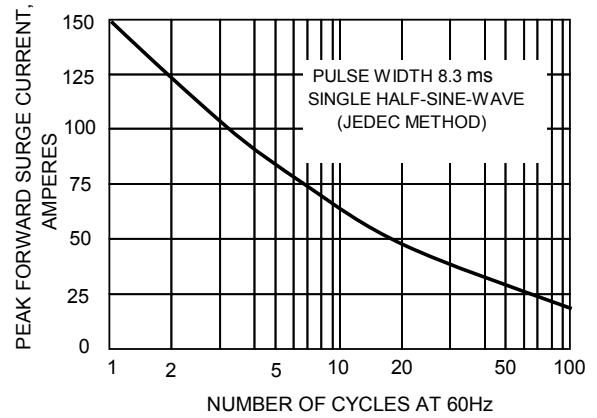


FIG.3-TYPICAL REVER CHARACTERISTICS

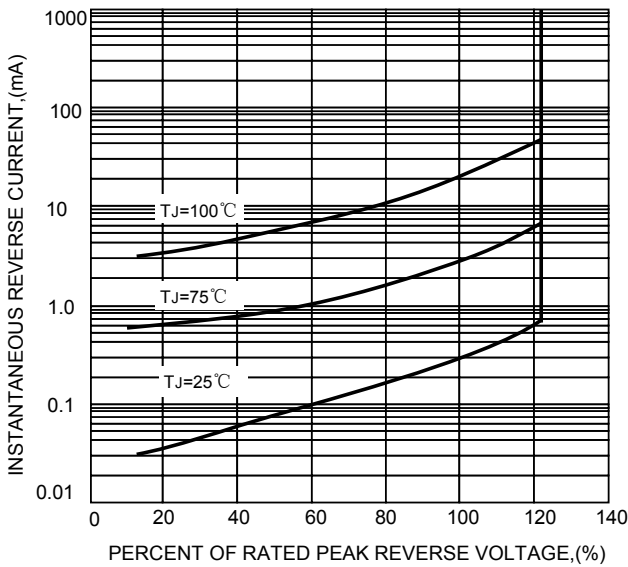


FIG.4-TYPICAL FORWARD CHARACTERISTICS

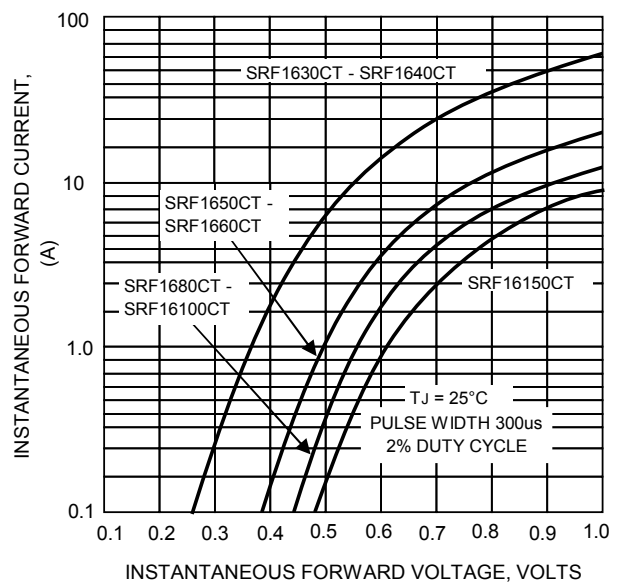


FIG.5 – TYPICAL JUNCTION CAPACITANCE

