

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 150Volts FORWARD CURRENT - 16.0 Amperes									
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>● Metal of silicon rectifier , majority carrier conduction</li> <li>● Guard ring for transient protection</li> <li>● Low power loss,high efficiency</li> <li>● High current capability,low VF</li> <li>● High surge capacity</li> <li>● Plastic package has UL flammability classification 94V-0</li> <li>● For use in low voltage,high frequency inverters,free wheeling,and polarity protection applications</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>● Case: ITO-220AC molded plastic</li> <li>● Polarity: As marked on the body</li> <li>● Weight: 0.08ounces,2.24 grams</li> <li>● Mounting position :Any</li> </ul>	<p><b>ITO-220AC</b></p> <p>Dimensions in inches and (millimeters)</p>									
<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b></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 1630	SRF 1640	SRF 1650	SRF 1660	SRF 1680	SRF 16100	SRF 16150	UNIT	
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	40	50	60	80	100	150	V	
Maximum RMS Voltage	V <sub>RMS</sub>	21	28	35	42	56	70	105	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	40	50	60	80	100	150	V	
Maximum Average Forward Rectified Current ( See Fig.1) @T <sub>c</sub> =95 °C	I <sub>(AV)</sub>	16.0							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	250							A	
Peak Forward Voltage at 16.0A DC(Note1)	V <sub>F</sub>	0.55		0.70		0.85		0.95	V	
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Blocking Voltage @T <sub>J</sub> =100°C	I <sub>R</sub>	1.0							50	mA
Typical Junction Capacitance (Note2)	C <sub>J</sub>	600							pF	
Typical Thermal Resistance (Note3)	R <sub>θJC</sub>	5.0							°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C	
Storage Temperature Range	T <sub>STG</sub>	-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

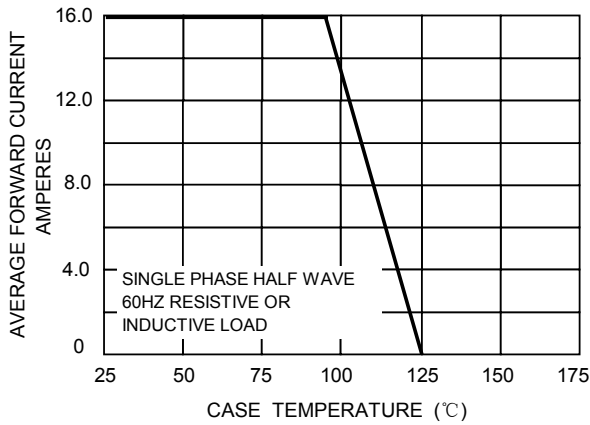


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

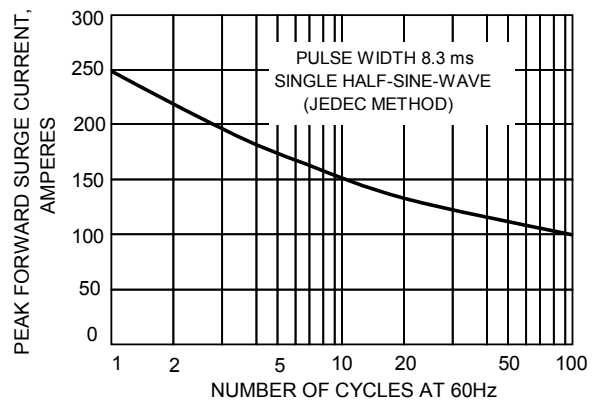


FIG.3-TYPICAL REVER CHARACTERISTICS

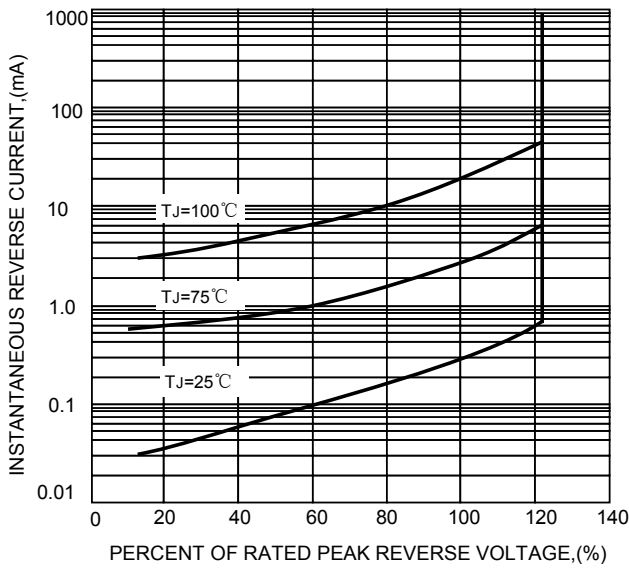


FIG.4-TYPICAL FORWARD CHARACTERISTICS

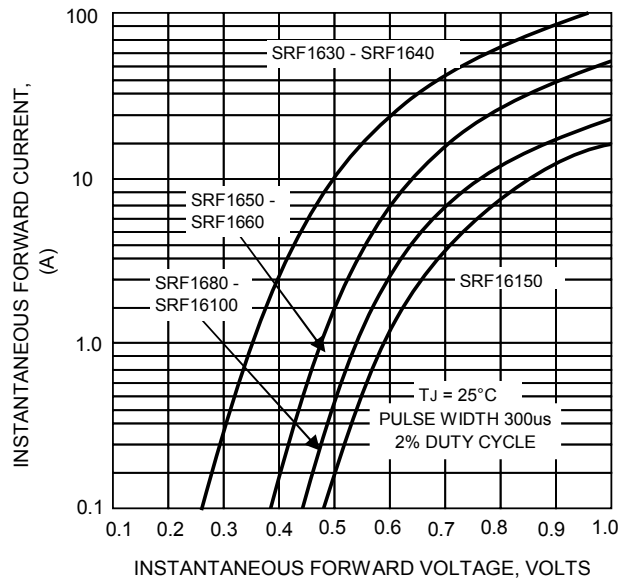


FIG.5 – TYPICAL JUNCTION CAPACITANCE

