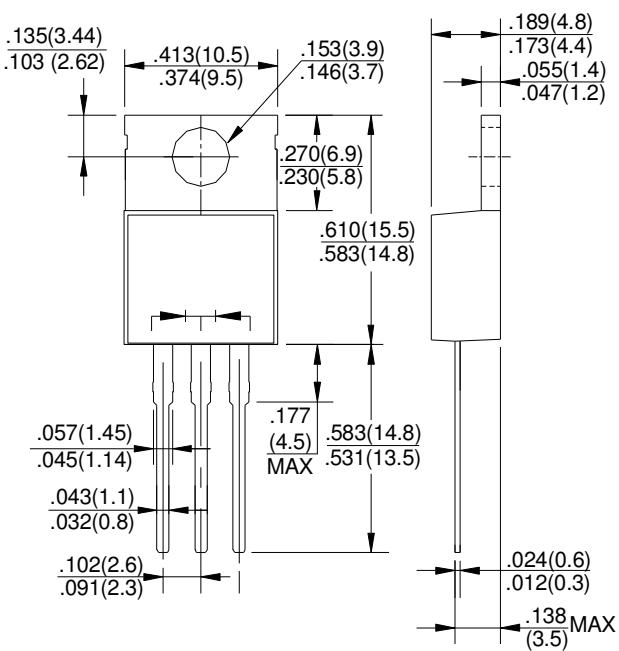


SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 150Volts FORWARD CURRENT - 20.0 Amperes																		
FEATURES	TO-220AB																		
<ul style="list-style-type: none"> <li>● Metal of silicon rectifier , majority carrier conduction</li> <li>● Guard ring for transient protection</li> <li>● 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>Dimensions in inches and (millimeters)</p>																		
MECHANICAL DATA																			
<ul style="list-style-type: none"> <li>● Case: TO-220AB 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>																			
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	SR 2030CT	SR 2040CT	SR 2050CT	SR 2060CT	SR 2080CT	SR 20100CT	SR 20150CT	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(AV)	20						A											
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	200						A											
Peak Forward Voltage at 10.0A 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 Bolcking 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>	2.0						°C/W											
Operating Temperature Range	T <sub>J</sub>	-55to+150						°C											
Storage Temperature Range	T <sub>STG</sub>	-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

## SR2030CT thru SR20150CT

**HY**

FIG. 1 – FORWARD CURRENT DERATING CURVE

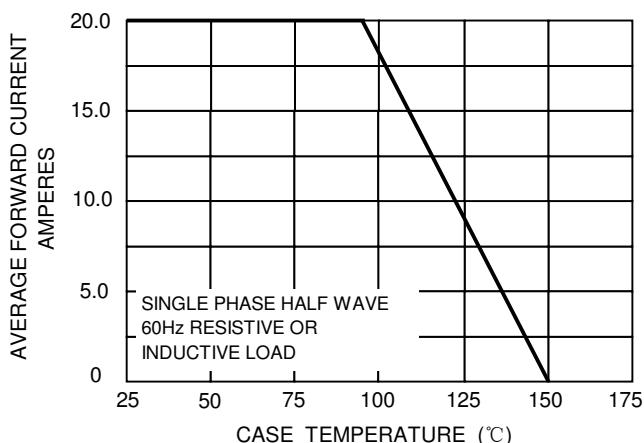


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

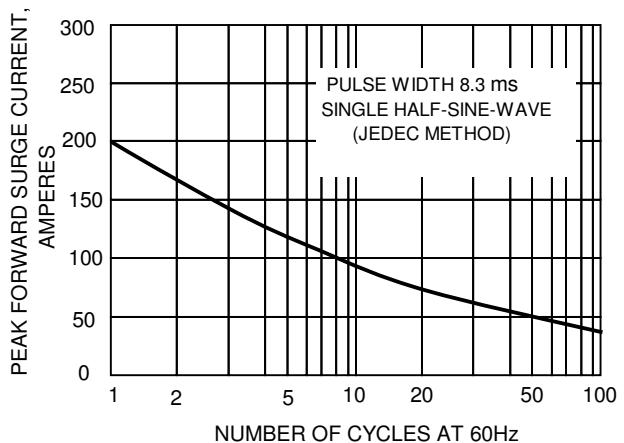


FIG.3-TYPICAL REVER CHARACTERISTICS

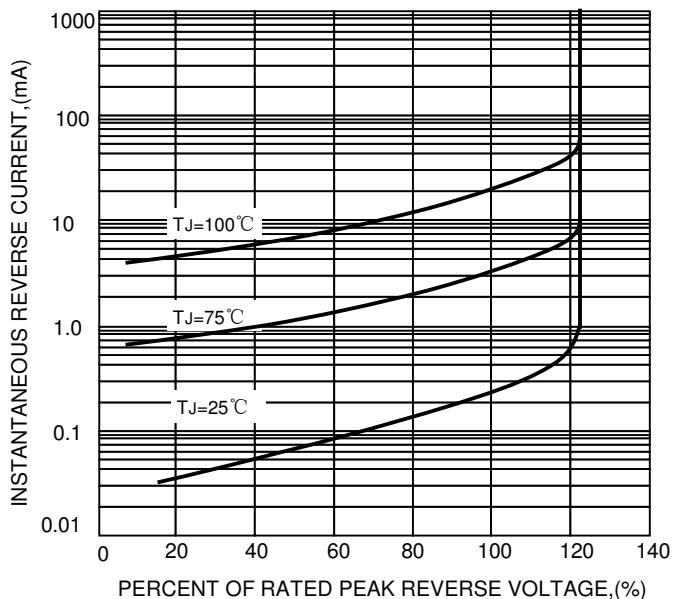


FIG.4-TYPICAL FORWARD CHARACTERISTICS

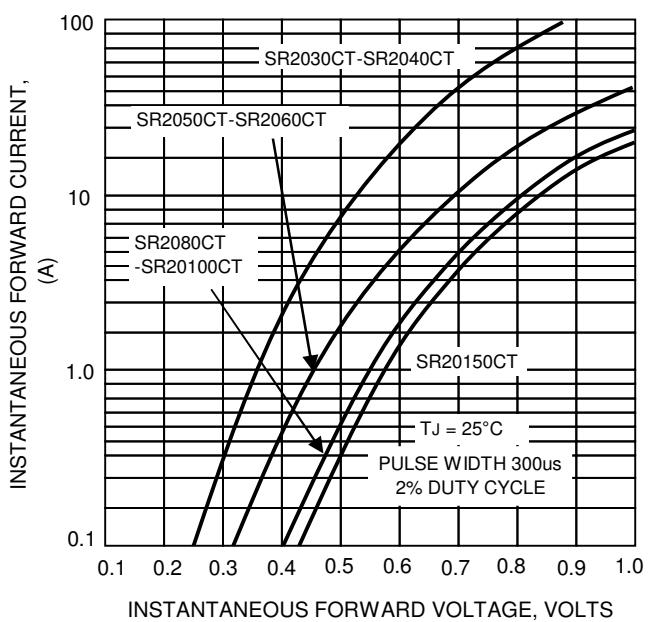


FIG.5 – TYPICAL JUNCTION CAPACITANCE

