



SR3030PT thru SR30150PT

SCHOTTKY BARRIER RECTIFIERS	REVERSE VOLTAGE - 30 to 100 Volts FORWARD CURRENT - 30.0 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: TO-3P molded plastic ●Polarity: As marked on the body ●Weight: 0.2ounces,5.6 grams ●Mounting position :Any 	<p>TO-3P</p> <p>Dimensions in inches and (millimeters)</p>

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 3030PT	SR 3040PT	SR 3050PT	SR 3060PT	SR 3080PT	SR 30100PT	SR 30150PT	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	IAV	30							A	
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	IFSM	275							A	
Peak Forward Voltage at 15.0A DC	VF	0.55		0.70		0.85		0.95	V	
Maximum DC Reverse Current at Rated DC Bolcking Voltage @Tj=25°C @Tj=100°C	IR	1.0							75	mA
Typical Junction Capacitance (Note1)	CJ	700							pF	
Typical Thermal Resistance (Note2)	RθJC	2.0							°C/W	
Operating Temperature Range	TJ	-55 to + 125							°C	
Storage Temperature Range	TSTG	-55 to + 150							°C	

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.

2.Thermal resistance junction to case.



RATING AND CHARACTERISTIC CURVES

SR3030PT thru SR30150PT



FIG. 1 – FORWARD CURRENT DERATING CURVE

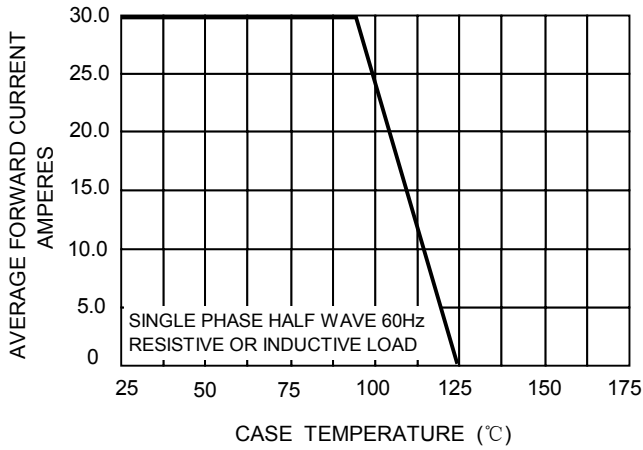


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

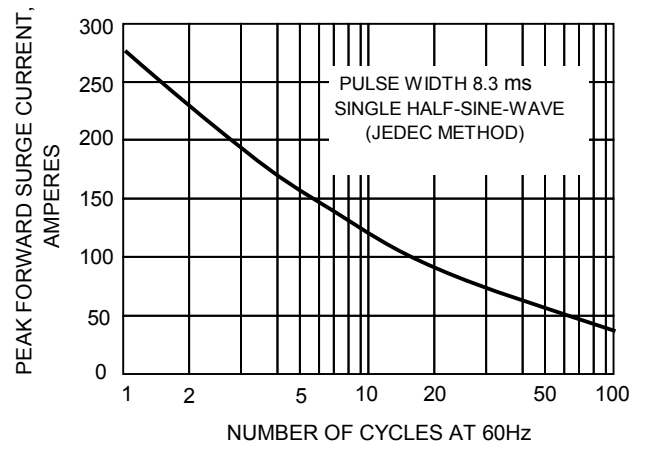


FIG.3-TYPICAL REVER CHARACTERISTICS

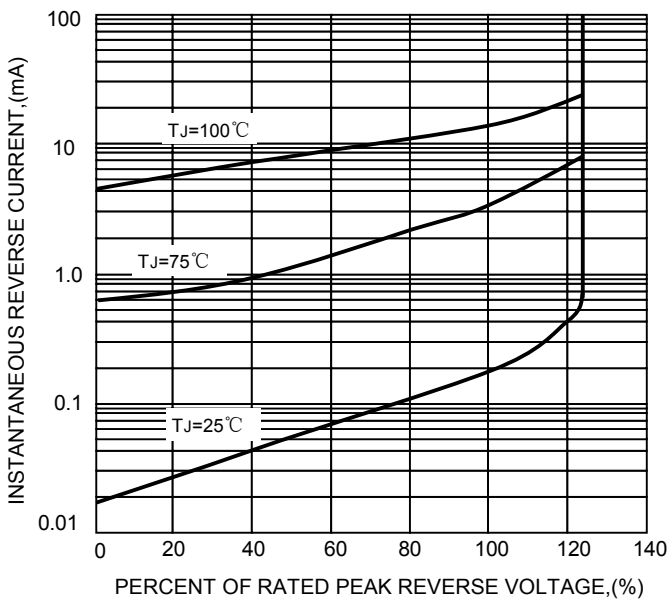


FIG.4-TYPICAL FORWARD CHARACTERISTICS

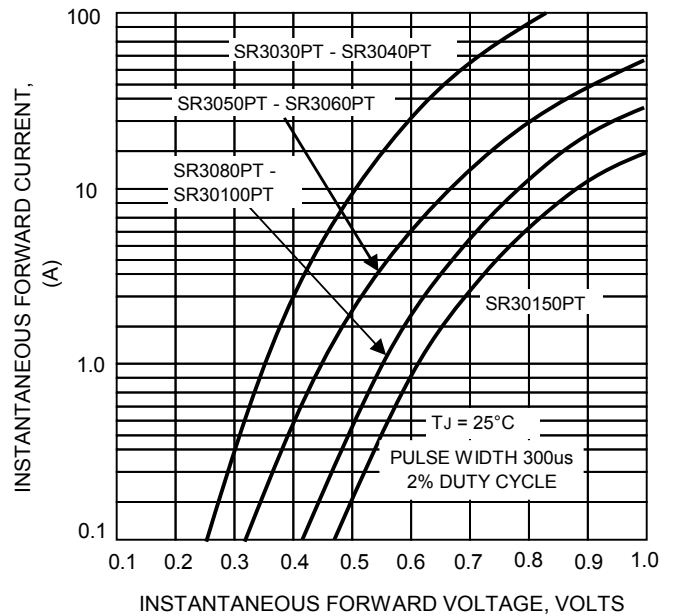


FIG.5 – TYPICAL JUNCTION CAPACITANCE

