

SCHOTTKY BARRIER RECTIFIERS		REVERSE VOLTAGE - 20 to 60 Volts FORWARD CURRENT - 3.0 Amperes								
FEATURES ● Metal-Semiconductor junction with gard ring ● Epitaxial construction ● Low forward voltage drop ● High current capability ● The plastic material carries UL recognition 94V-0 ● For use in low vlotage, high frequency inverters, free wheeling, and polarity protection applications MECHANICAL DATA ●Case: JEDEC DO-27 molded plastic ●Polarity: Color band denotes cathode ●Weight: 0.04ounces , 1.1grams ●Mounting position: Any		DO- 27 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	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	V
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	V
Maximum Average Forward 0.375" (9.5mm) Lead Lengths (See Fig.1)		I(AV)	3.0							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)		IFSM	80							A
Maximum Forward Voltage at 3.0A DC		VF	0.45	0.55	0.6	0.7		0.85		V
Maximum DC Reverse Current @Tj=25°C at Rated DC Bolcking Voltage @Tj=100°C		IR	1.0 20							mA
Typical Junction Capacitance (Note1)		CJ	250							pF
Typical Thermal Resistance (Note2)		RθJA	20			10				°C/W
Operating Temperature Range		TJ	-55 to +150							°C
Storage Temperature Range		TSTG	-55 to +150							°C
NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC 2.Thermal resistance junction to lead,										

FIG. 1 – FORWARD CURRENT DERATING CURVE

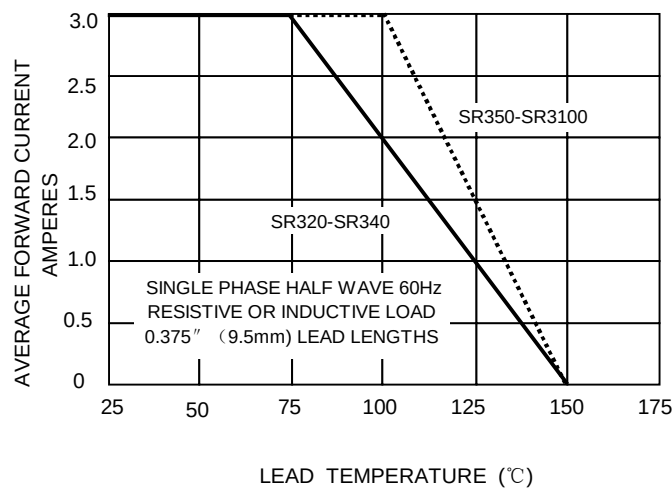


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

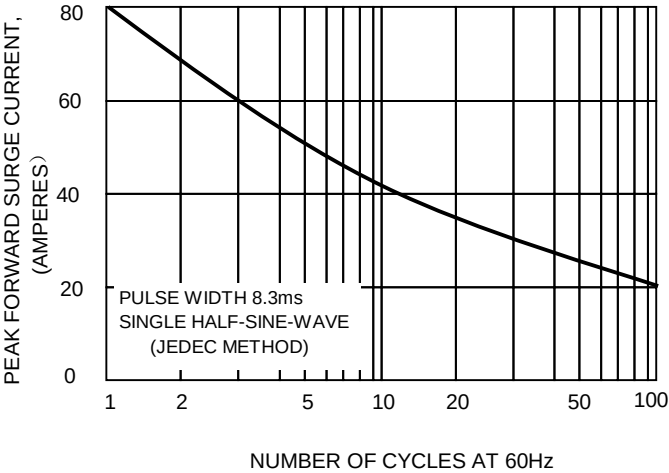


FIG.3 – TYPICAL JUNCTION CAPACITANCE

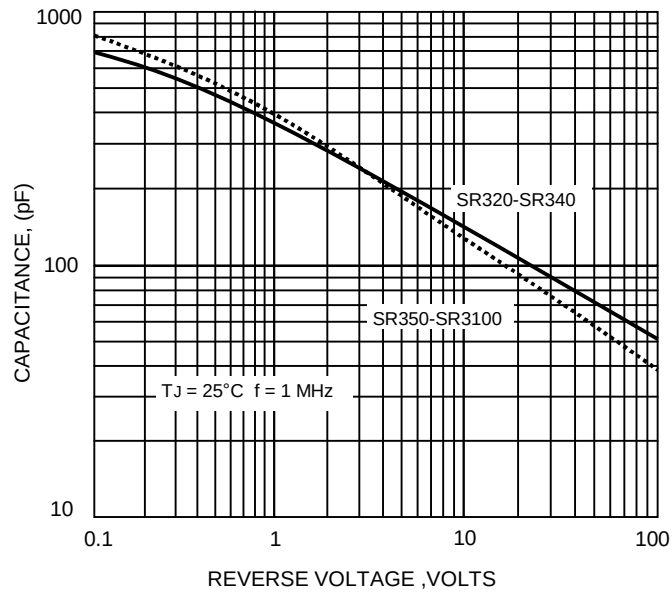


FIG.3-TYPICAL FORWARD CHARACTERISTICS

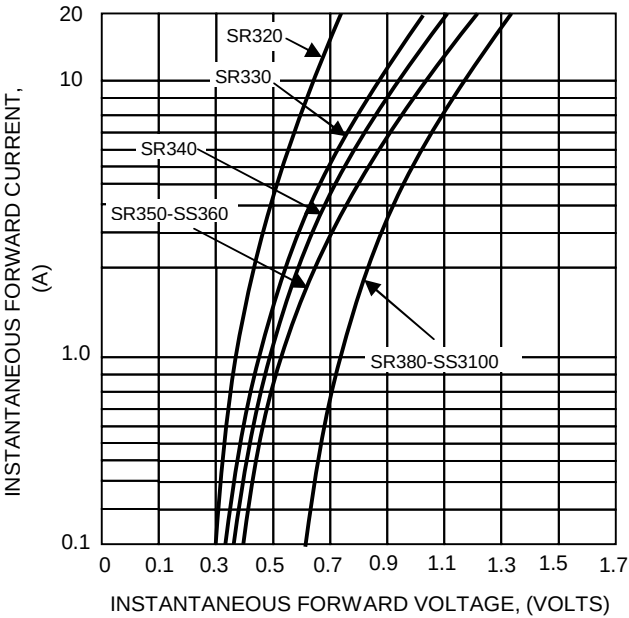


FIG.2-TYPICAL REVER CHARACTERISTICS

