

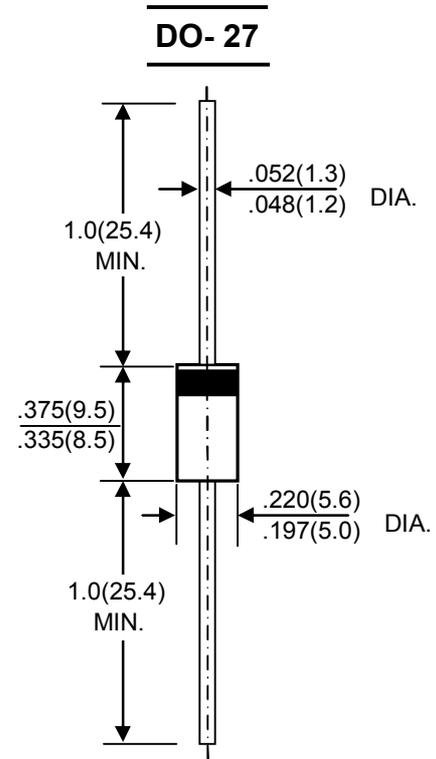
<b>SCHOTTKY BARRIER RECTIFIERS</b>	<b>REVERSE VOLTAGE - 20 to 100 Volts</b> <b>FORWARD CURRENT - 3.0 Amperes</b>
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### FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, 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



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 Surge 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	0.55			0.7		0.85		V	
Maximum DC Reverse Current @T <sub>J</sub> =25°C at Rated DC Bolcking Voltage @T <sub>J</sub> =100°C	IR	1.0							20	mA
Typical Junction Capacitance (Note1)	CJ	250							pF	
Typical Thermal Resistance (Note2)	RθJL	20			10				°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 4.0V DC  
 2.Thermal resistance junction to lead,

**RATING AND CHARACTERISTIC CURVES**  
**SR320 thru SR3100**



FIG. 1 – FORWARD CURRENT DERATING CURVE

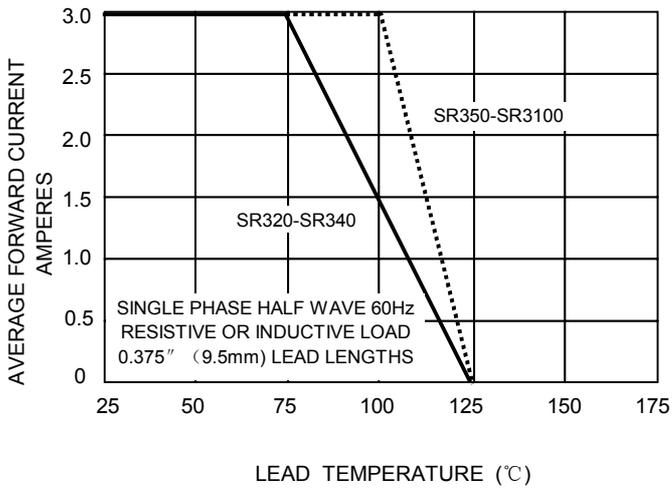


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

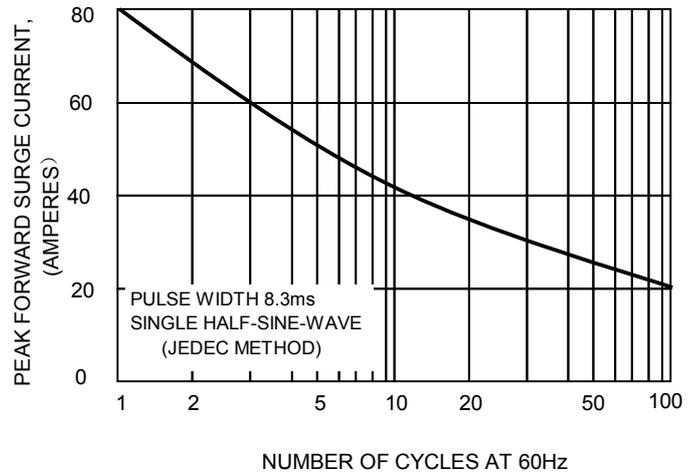


FIG.3 – TYPICAL JUNCTION CAPACITANCE

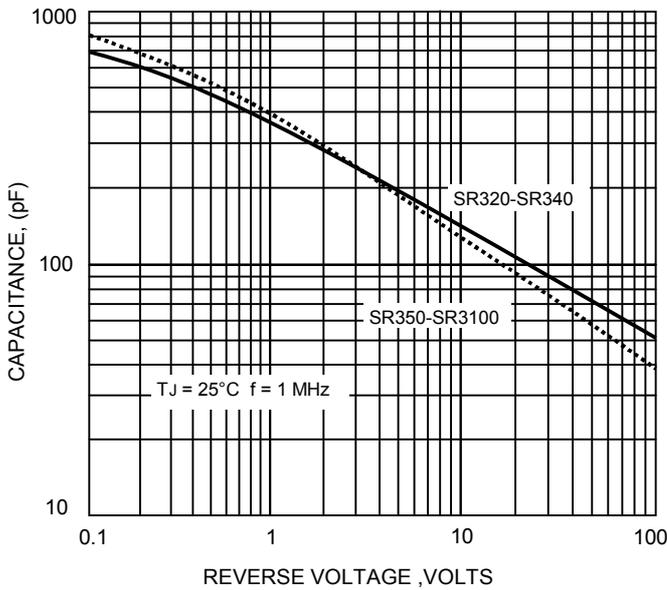


FIG.3-TYPICAL FORWARD CHARACTERISTICS

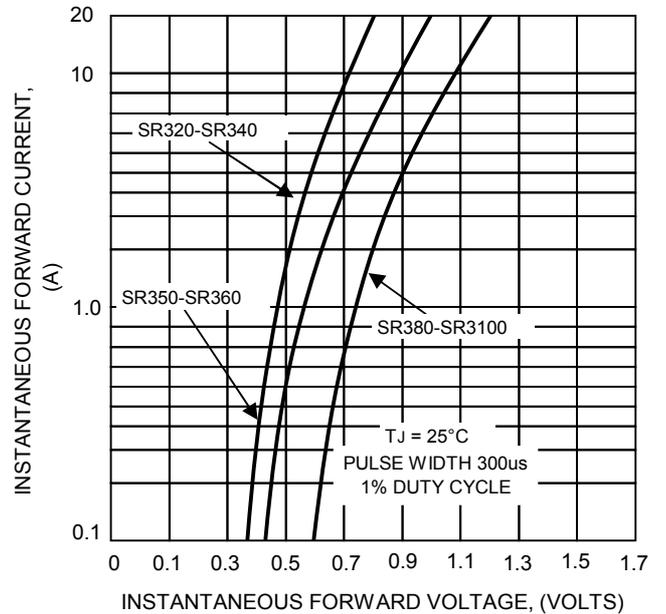


FIG.5-TYPICAL REVER CHARACTERISTICS

