

# SR320 THRU SR3A0

## SCHOTTKY BARRIER RECTIFIERS

### FEATURES:

- Low power loss, high efficiency
- High surge current capability
- Low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling application

### MECHANICAL DATA

Case : Molded plastic use UL 94V-0 recognized flame retardant epoxy

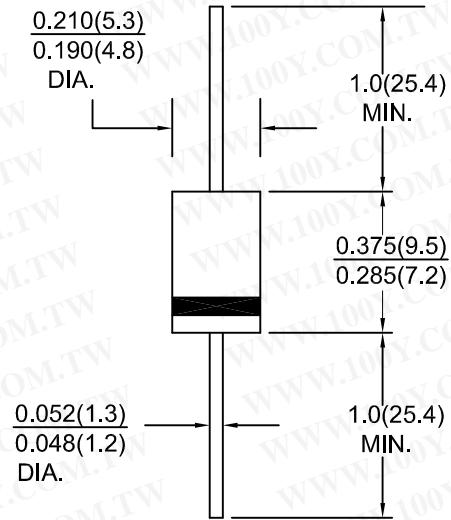
Terminals : Axial leads, solderable per MIL-STD-202 Method 208

Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.1 grams, 0.039 ounce

### DO-201AD



Dimensions in inches and (millimeters)

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	SR 320	SR 330	SR 340	SR 350	SR 360	SR 380	SR 3A0	Units
Maximum recurrent peak reverse voltage	VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	Volts
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current	IO	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	IFSM	80							Amps
Maximum instantaneous forward voltage drop at 3.0 A (NOTE 1)	VF	0.55			0.70		0.85		Volts
Maximum instantaneous reverse current Ta=25 °C at rated DC blocking voltage (NOTE 1) Ta=100 °C	IR	20			10				mA
Typical thermal resistance	Rth-JA Rth-JL	40.0 10.0							°C/W
Operating junction temperature range	Tj	-65 to +125			-65 to +150				°C
Storage temperature range	Tstg	-65 to +150							°C

- NOTE :
1. Pulse test: 300 us pulse width, 1% duty cycle
  2. Thermal resistance from junction to lead vertical PCB mounted, 0.5"(12.7mm) lead length with 2.5X2.5"(63.5mmX63.5mm) copper pads

# RATINGS AND CHARACTERISTIC CURVES SR320 THRU SR3A0

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

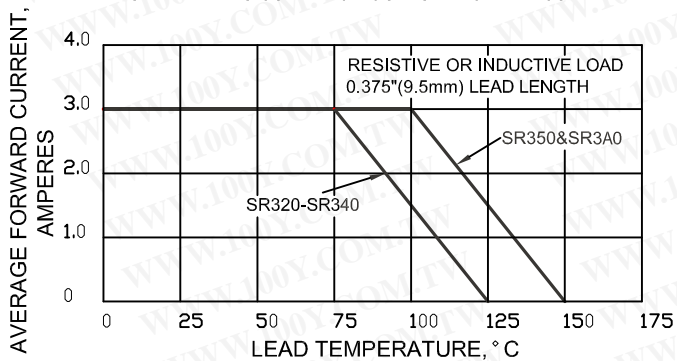


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

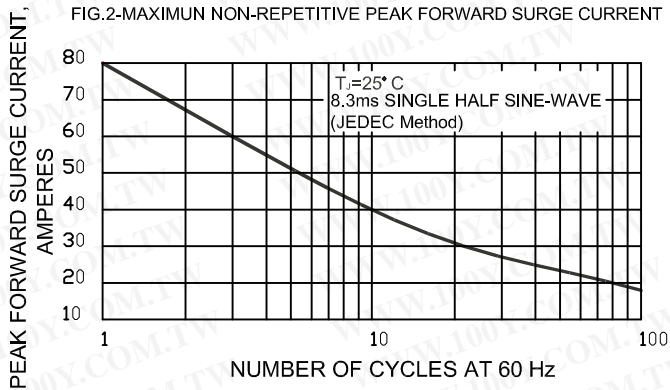


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

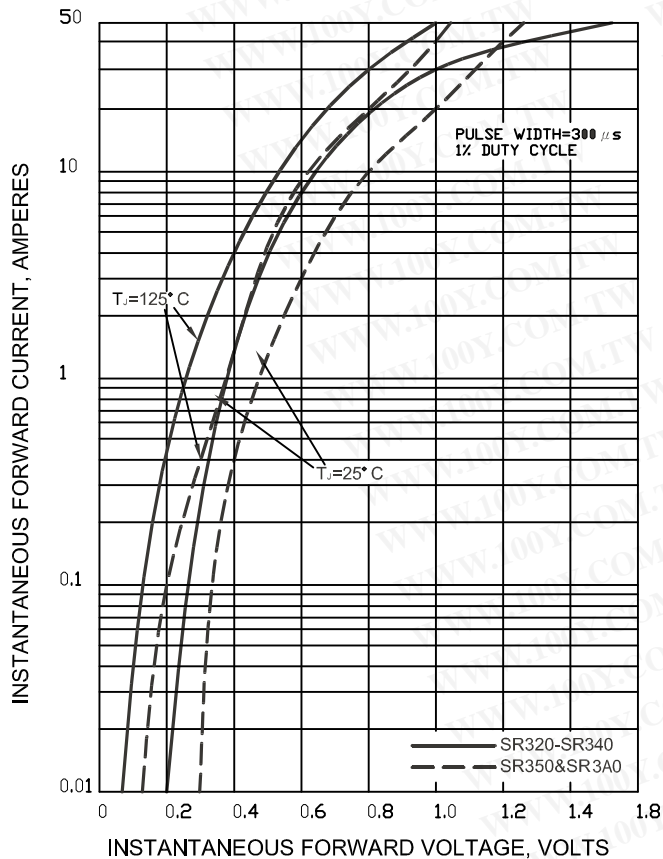


FIG.4-TYPICAL REVERSE CHARACTERISTICS

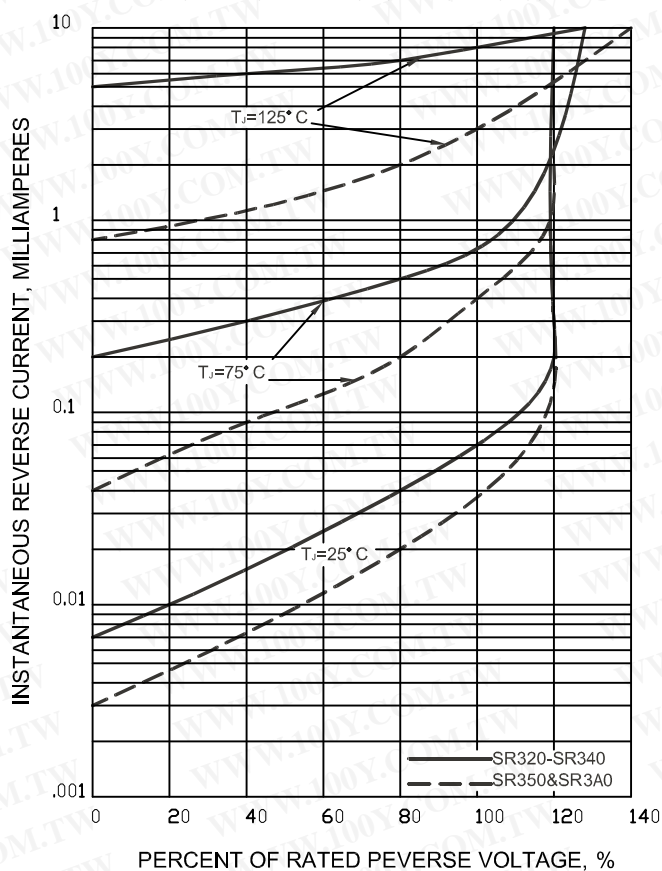


FIG.5-TYPICAL JUNCTION CAPACITANCE

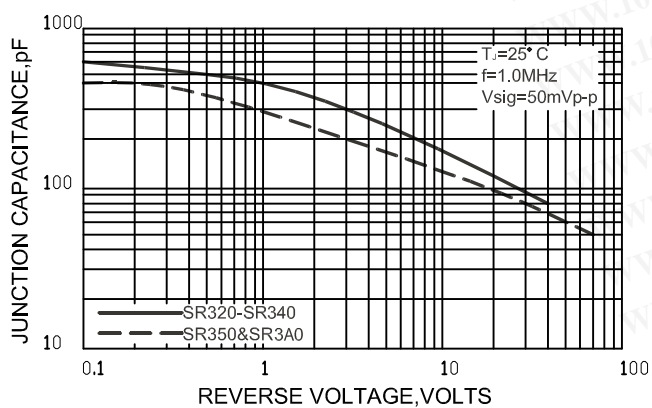
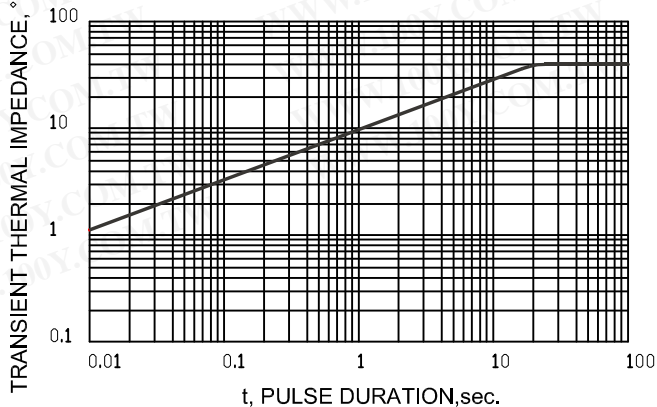


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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