

SR320S THRU SR360S

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

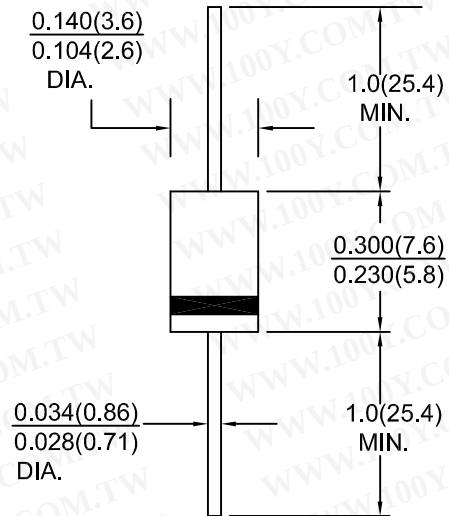
Polarity : Color band on body denotes cathode end

Mounting Position : Any

Weight : 1.1 grams, 0.039 ounce

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)

DO-204AC(DO-15)



Dimensions in inches and (millimeters)

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 320S	SR 330S	SR 340S	SR 350S	SR 360S	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current	I _O	3.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	80					Amps
Maximum instantaneous forward voltage drop at 3.0 A (NOTE 1)	V _F	0.55			0.70		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1) Ta=25 °C Ta=100 °C	I _R	1.5				10	mA
		20					
Typical thermal resistance	R _{th-JA}	40.0					°C/W
	R _{th-JL}	10.0					
Operating junction temperature range	T _j	-65 to +125		-65 to +150			°C
Storage temperature range	T _{stg}	-65 to +150					°C

NOTE :

1. Pulse test: 300 μ s pulse width, 1% duty cycle

2. Thermal resistance from junction to lead vertical P.C.B mounted , 0.5"(12.7mm) lead length with 2.5X2.5"(63.5mmX63.5mm) copperpads

RATINGS AND CHARACTERISTIC CURVES SR320S THRU SR360S

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

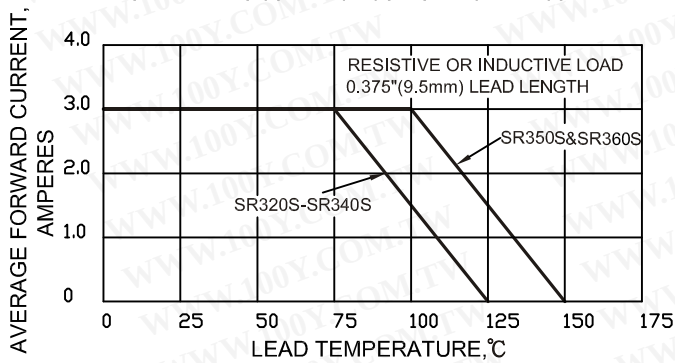


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

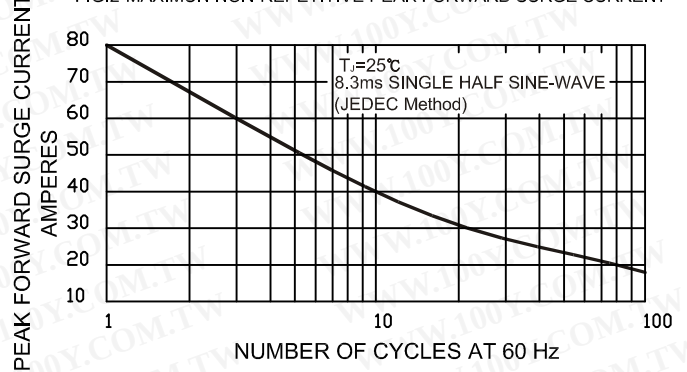


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

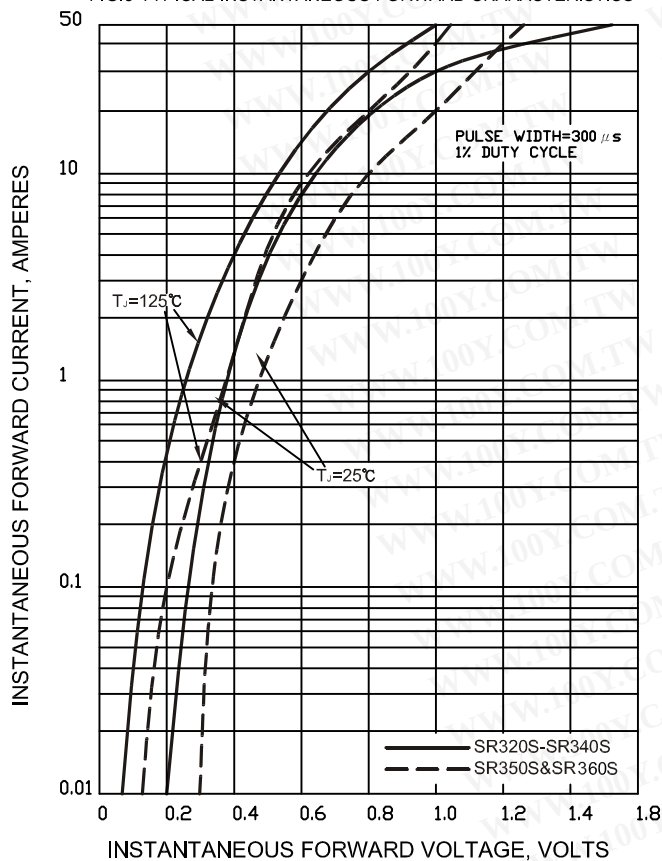


FIG.4-TYPICAL REVERSE CHARACTERISTICS

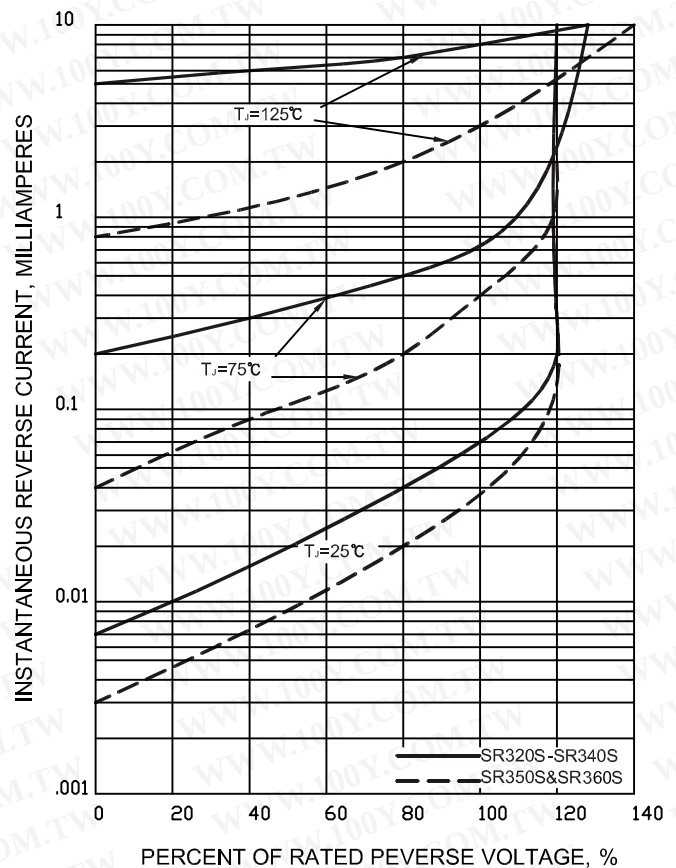


FIG.5-TYPICAL JUNCTION CAPACITANCE

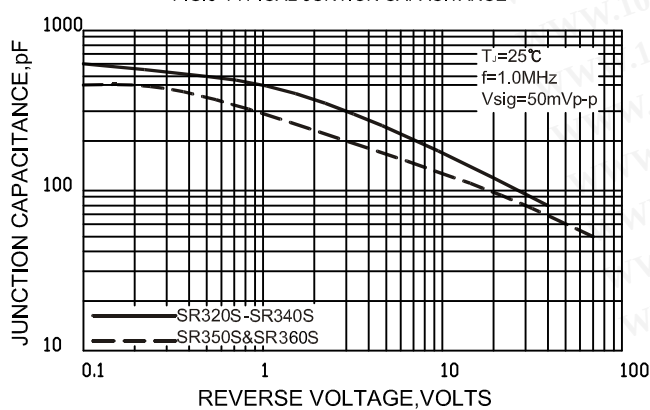


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

