

# SR220S THRU SR260S

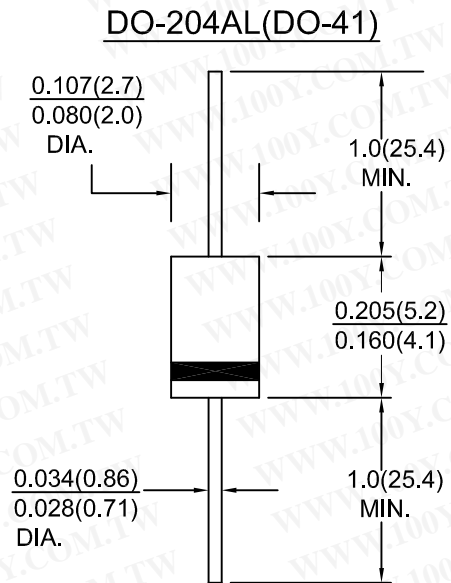
## SCHOTTKY BARRIER RECTIFIER

### FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering:  
 250°C / 10 second at terminals, 0.375" (9.5mm) lead length, 5lbs, (2.3kg) tension

### MECHANICAL DATA

Case: JEDEC DO-14 molded plastic  
 Terminals: Plated axial lead, solderable per MIL-STD-750, Method 2026  
 Polarity: Color band denotes cathode end  
 Standard Packaging: Any  
 Weight: 0.014 ounces, 0.039 grams



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 220S	SR 230S	SR 240S	SR 250S	SR 260S	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	Volts
Maximum DC voltage	V <sub>DC</sub>	20	30	40	50	60	Volts
Maximum average forward rectified current at T <sub>L</sub> = 75°C	I <sub>o</sub>	2.0					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50					Amps
Maximum instantaneous forward voltage drop at 2.0A (NOTE 1)	V <sub>F</sub>	0.55			0.70		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I <sub>R</sub>	1.0 10					mA
Typical thermal resistance (NOTE 3)	R <sub>th JA</sub>	35.0					°C/W
Operating Junction temperature range	T <sub>J</sub>	-55 to +125					°C
Storage temperature range	T <sub>stg</sub>	-55 to +150					°C

NOTE : 1. Pulse test : 300us width, 1% duty cycle:  
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts  
 3. Thermal resistance from junction to lead .and/or to ambient P.C.B mounted with 0.375" (9.5mm) lead length with 1.5X1.5" (38X38mm) copper pads

# RATINGS AND CHARACTERISTIC CURVES SR220S THRU SR260S

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)

FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURVE

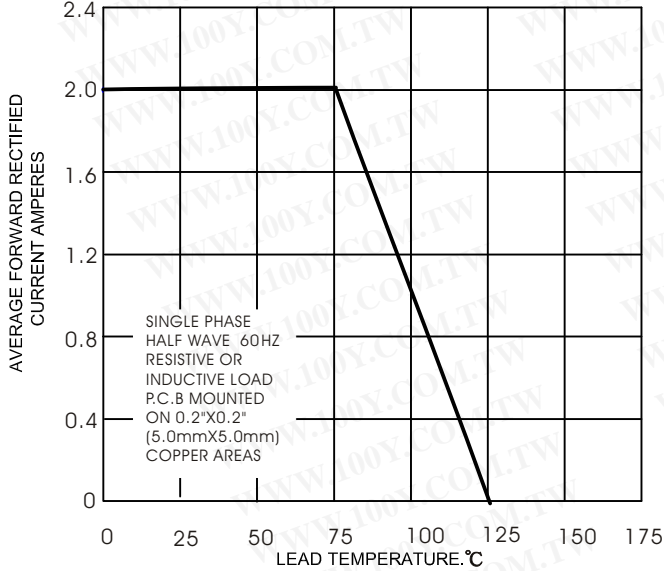


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

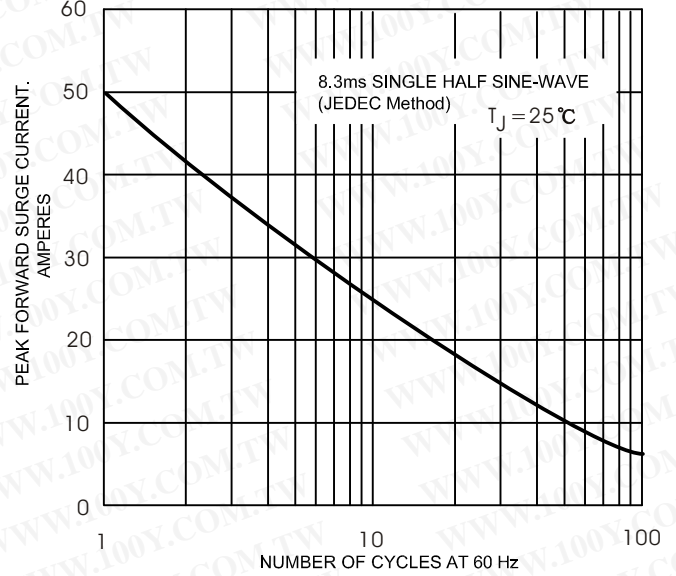


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

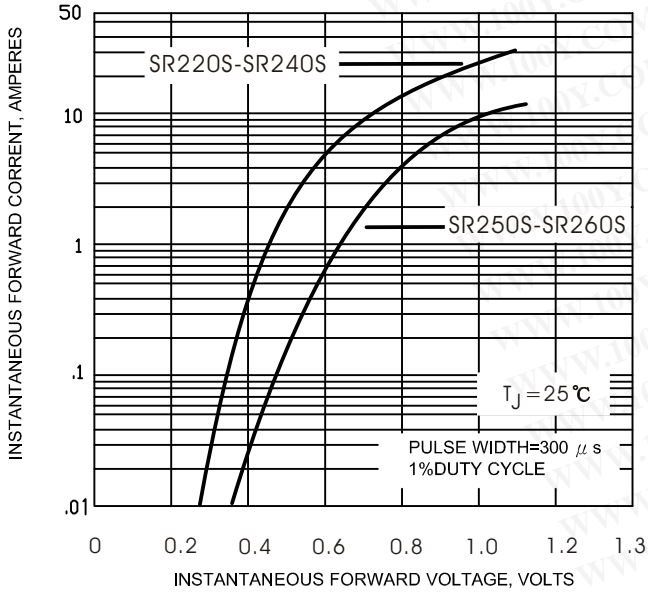


FIG.4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

