

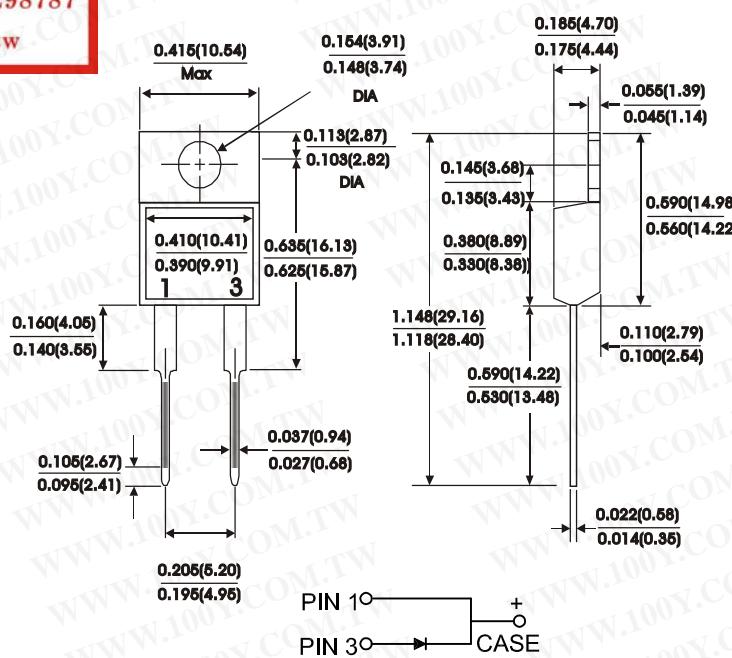
勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon Junction Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

## MECHANICAL DATA

Case : JEDEC TO-220AC molded plastic  
 Terminals : Leads solderable per MIL-STD-750  
 Method 2026  
 Polarity : As marked  
 Mounting Position : Any  
 Mounting Torque 5 In - lbs.max  
 Weight : 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

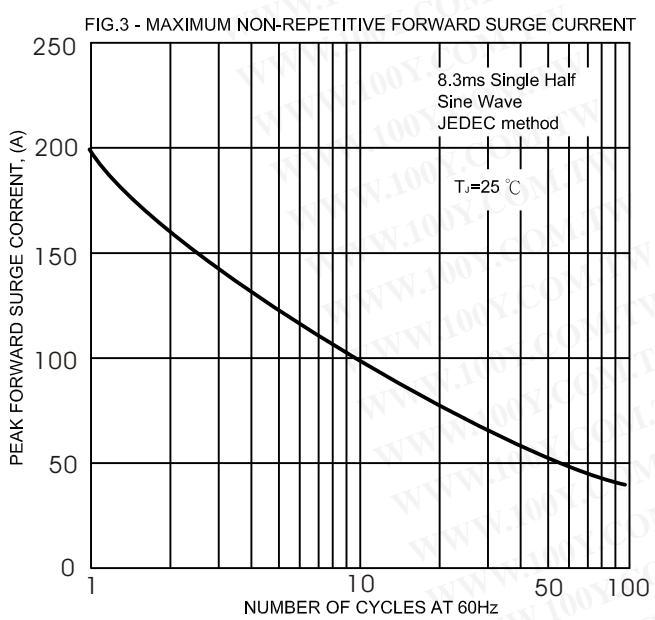
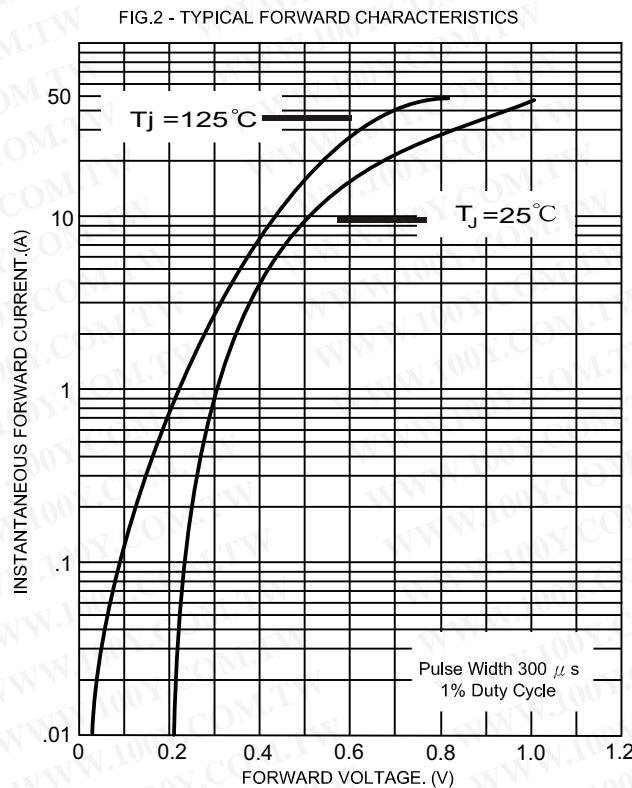
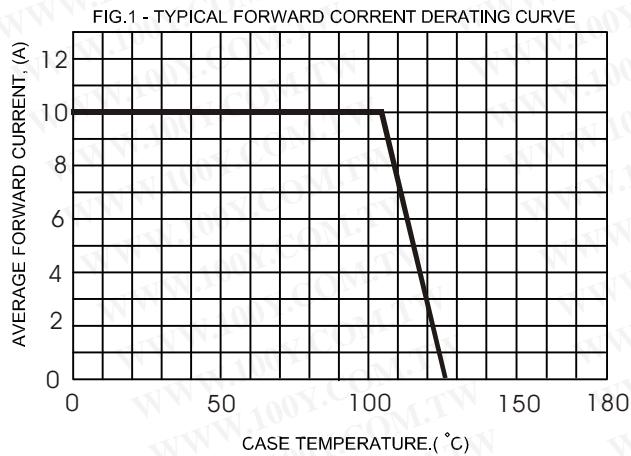
Characteristic	Symbol	SRL1020	SRL1030	SRL1040	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	20	30	40	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	Volts
Maximum average forward rectified current at T <sub>c</sub> =105°C	I <sub>(AV)</sub>		10		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>		200		Amps
Maximum instantaneous forward voltage (NOTE 2)	I <sub>F</sub> =10 A	V <sub>F</sub>		0.55	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2)	T <sub>c</sub> = 25°C T <sub>c</sub> =100°C	I <sub>R</sub>		1.0 50	mA
Typical thermal resistance (NOTE 1)	R <sub>th</sub> -JC		2.0		°C/W
Operating temperature range	T <sub>J</sub>		-40 to +125		°C
Storage temperature range	T <sub>Stg</sub>		-40 to +125		°C

## NOTES:

(1) Thermal resistance from junction to case

(2) Pulse test: 300 us pulse width, 1% duty cycle

# RATINGS AND CHARACTERISTIC CURVES SRL1020 THRU SRL1040



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