

SRL20L15

SCHOTTKY BARRIER RECTIFIERS

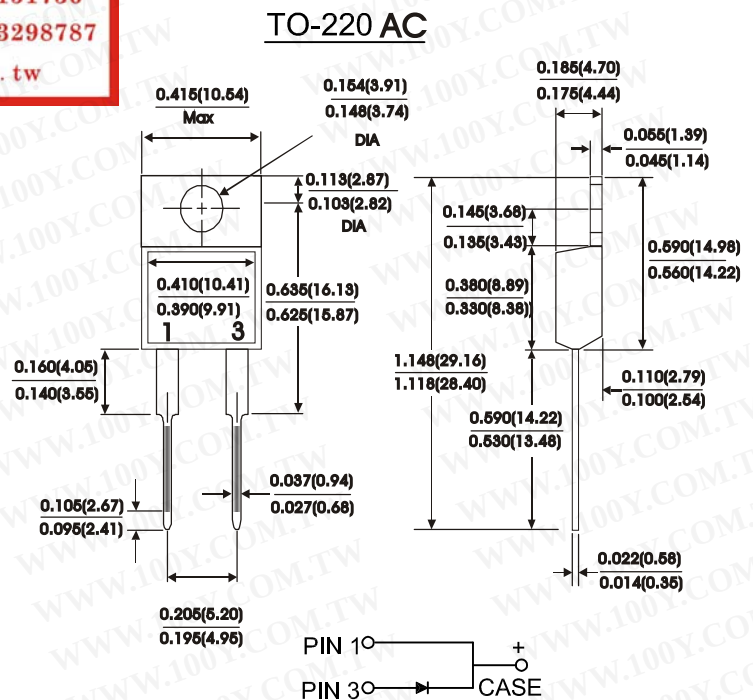
勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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	SRL20L15	Units
Maximum recurrent peak reverse voltage	V_{RRM}	15	Volts
Maximum RMS voltage	V_{RMS}	10	Volts
Maximum DC blocking voltage	V_{DC}	15	Volts
Maximum average forward rectified current at $T_c=105^{\circ}\text{C}$	I_o	20	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	340	Amps
Maximum instantaneous forward voltage (NOTE 2) $I_F=20\text{ A}$	V_F	0.41	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2) $T_c=25^{\circ}\text{C}$ $T_c=100^{\circ}\text{C}$	I_R	6.0 500	mA
Typical thermal resistance (NOTE 1)	R_{th-JC}	1.6	$^{\circ}\text{C/W}$
Operating temperature range	T_J	-65to+125	$^{\circ}\text{C}$
Storage temperature range	T_{Stg}	-65to+150	$^{\circ}\text{C}$

NOTES:

(1) Thermal resistance from junction to case

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

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

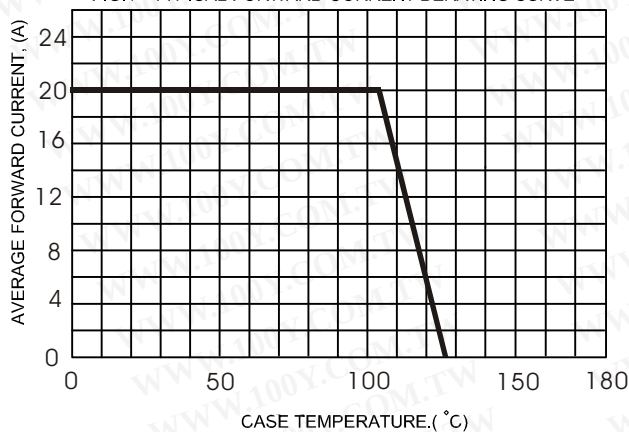


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

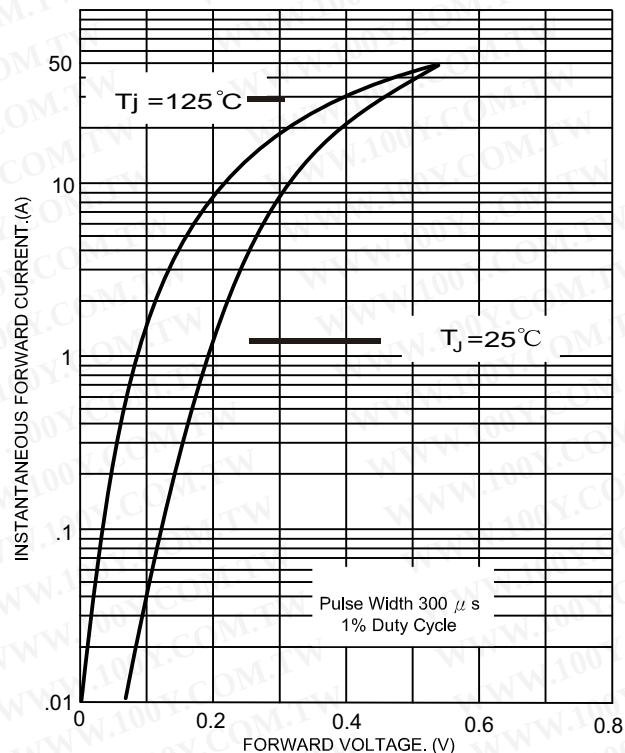
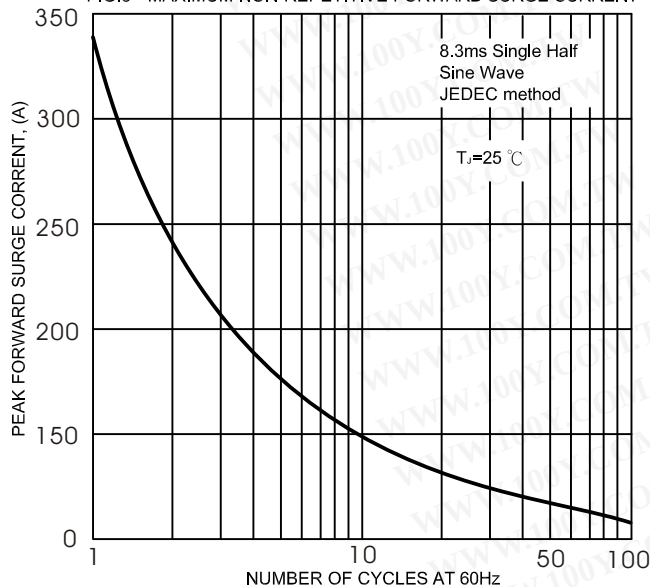


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.5- TYPICAL REVERSE CHARACTERISTICS

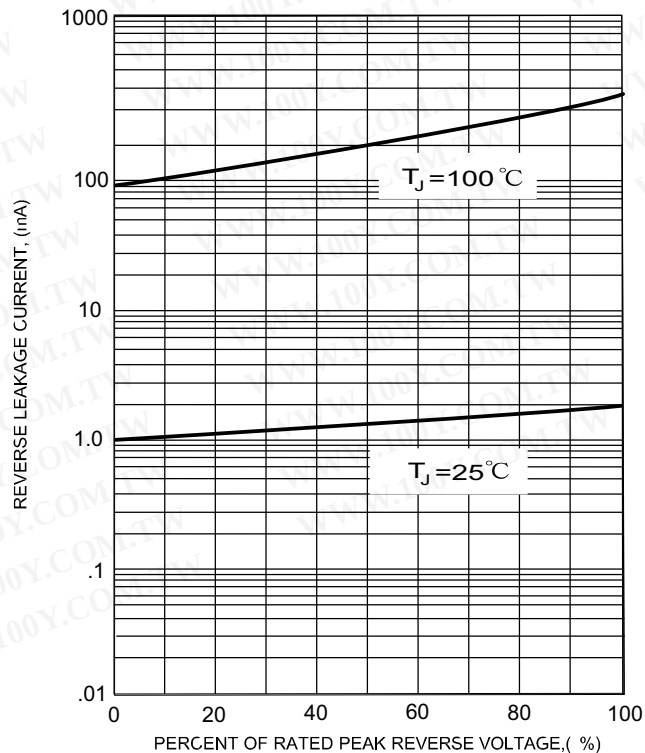


FIG.4- TYPICAL JUNCTION CAPACITANCE

