

# SRL25L20CT THUR SRL25L30CT

## SCHOTTKY BARRIER RECTIFIERS

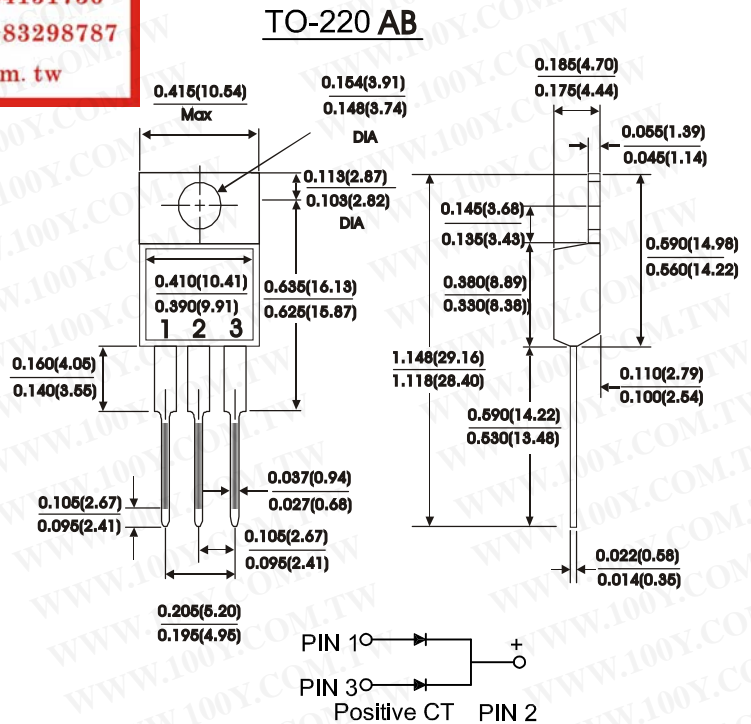
勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- 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-220AB 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



### 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	SRL25L20CT	SRL25L25CT	SRL25L30CT	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	25	30	Volts
Maximum RMS voltage	$V_{RMS}$	14	17	21	Volts
Maximum DC blocking voltage	$V_{DC}$	20	25	30	Volts
Maximum average forward rectified current at $T_c = 105^\circ C$	$I_o$		25		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	$I_{FSM}$		180		Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) $I_F = 12.5A$	$V_F$		0.49		Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Per leg)(NOTE 2) $T_c = 25^\circ C$ $T_c = 100^\circ C$	$I_R$		0.90 50		mA
Typical thermal resistance(Per leg)(NOTE 1)	$R_{th-JC}$		1.5		$^\circ C/W$
Operating temperature range	$T_J$		-40to+125		$^\circ C$
Storage temperature range	$T_{Stg}$		-40to+125		$^\circ C$

**NOTES:**  
 (1) Thermal resistance from junction to case  
 (2) Pulse test : 300 us pulse width, 1% duty cycle  
 (3) Marking :  $\frac{SRL25L20CT}{Symbol} = \frac{SRL25L20}{Marking}$  (Without Marking "CT")

# RATINGS AND CHARACTERISTIC CURVES SRL25L20CT THRU SRL25L30CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

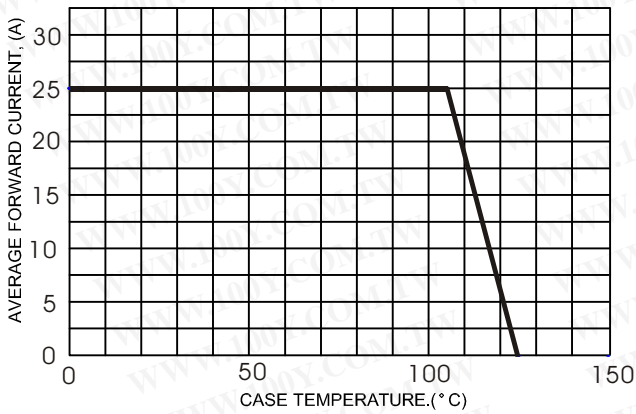


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

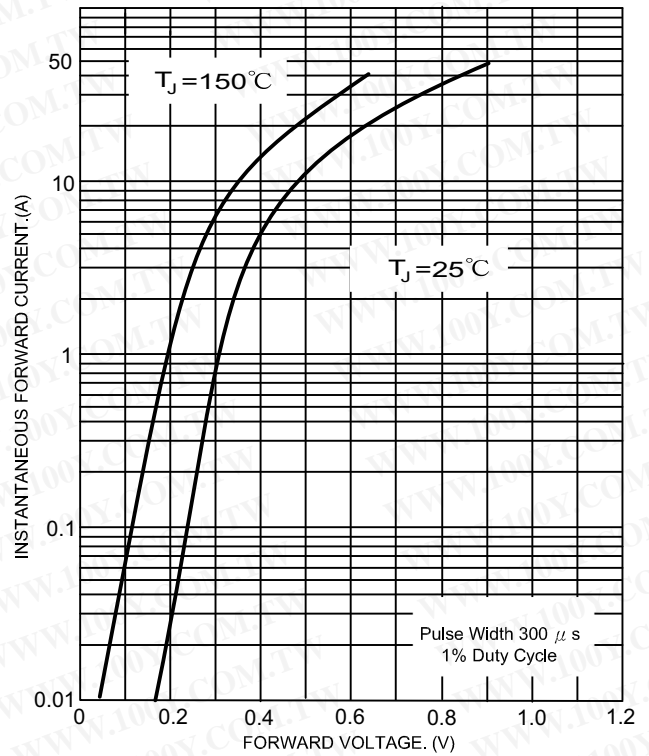
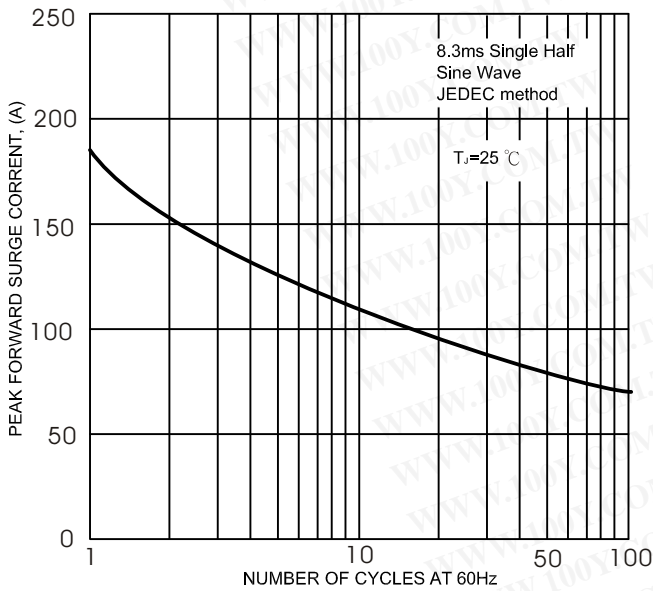


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.5- TYPICAL REVERSE CHARACTERISTICS

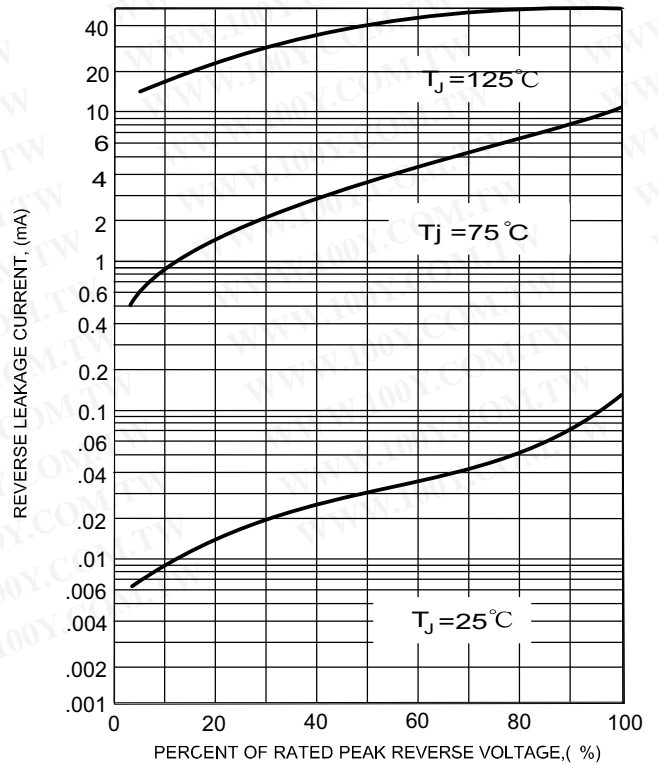


FIG.4- TYPICAL JUNCTION CAPACITANCE

