

SRL10L25

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)

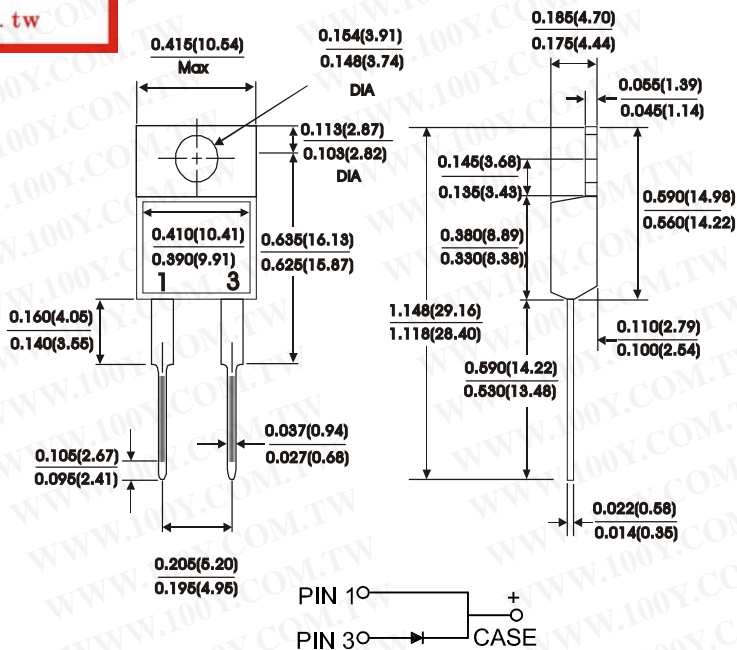
FEATURES:

- 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 Postition : Any
Mounting Torque 5 in - lbs. max
Weight : 0.08 ounce, 2.24 grams

TO-220 AC



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	SRL10L25	Units
Maximum recurrent peak reverse voltage	V_{RRM}	25	Volts
Maximum RMS voltage	V_{RMS}	18	Volts
Maximum DC blocking voltage	V_{DC}	25	Volts
Maximum average forward rectified current at $T_c=105^\circ\text{C}$	I_o	10	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200	Amps
Maximum instantaneous forward voltage (NOTE 2) $I_F=10\text{ A}$	V_F	0.46	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 2) $T_c=25^\circ\text{C}$ $T_c=125^\circ\text{C}$	I_R	0.80 260	mA
Typical thermal resistance (NOTE 1)	R_{th-JC}	1.5	$^\circ\text{C}/\text{W}$
Operating temperature range	T_J	-65to +150	$^\circ\text{C}$
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

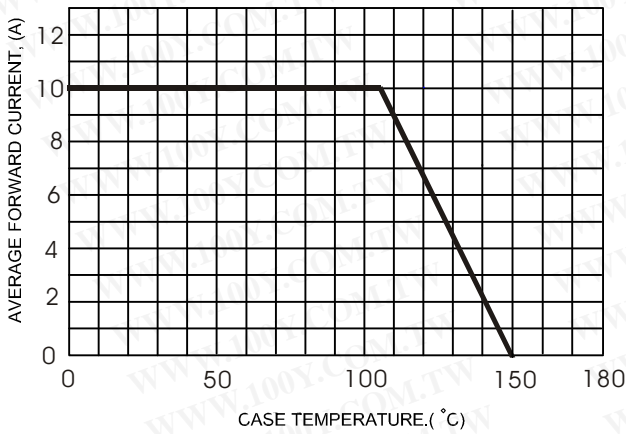
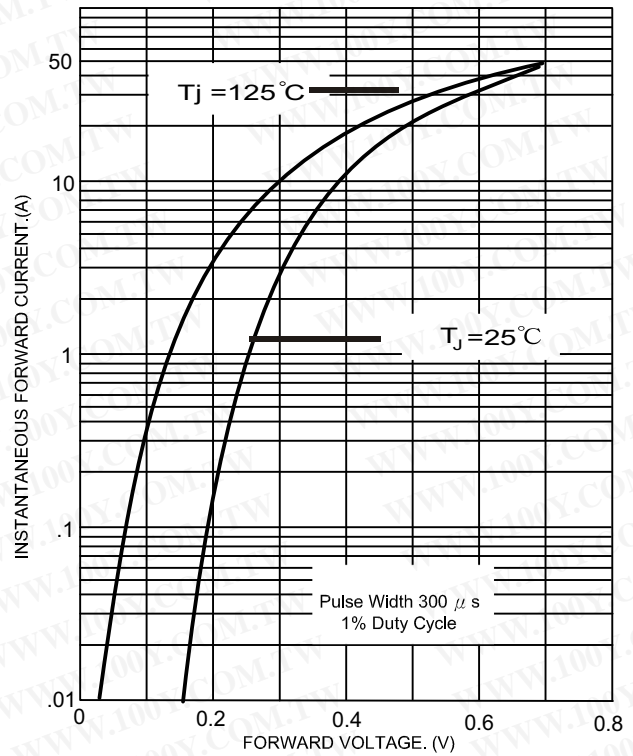


FIG.2 - TYPICAL FORWARD CHARACTERISTICS



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FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

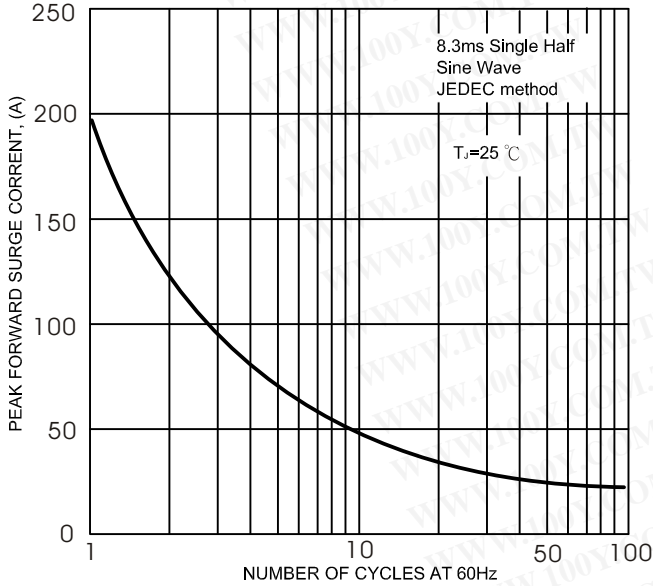


FIG.5- TYPICAL REVERSE CHARACTERISTICS

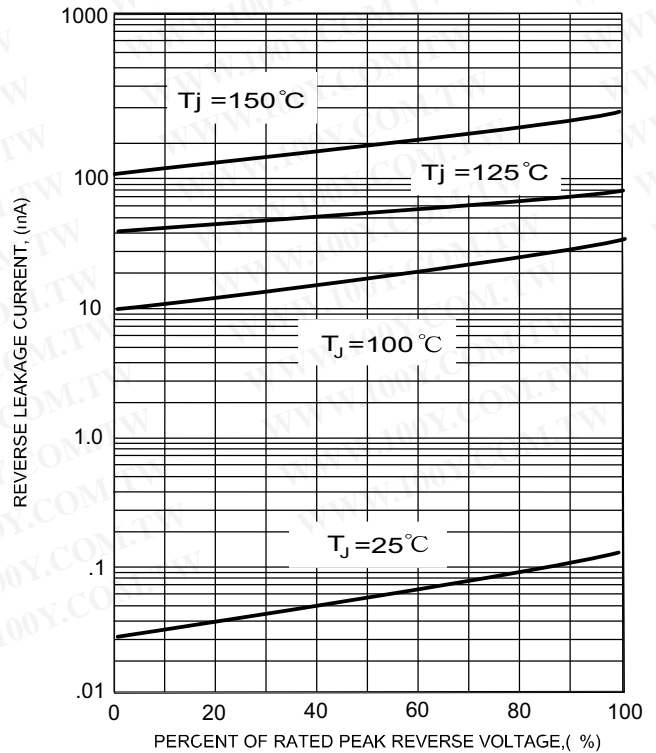


FIG.4- TYPICAL JUNCTION CAPACITANCE

