

SRL40L15PT

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)

TO-247AD/TO-3P

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-3P molded plastic

Terminals : Leads solderable per MIL-STD-750

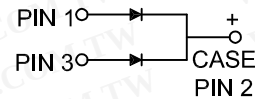
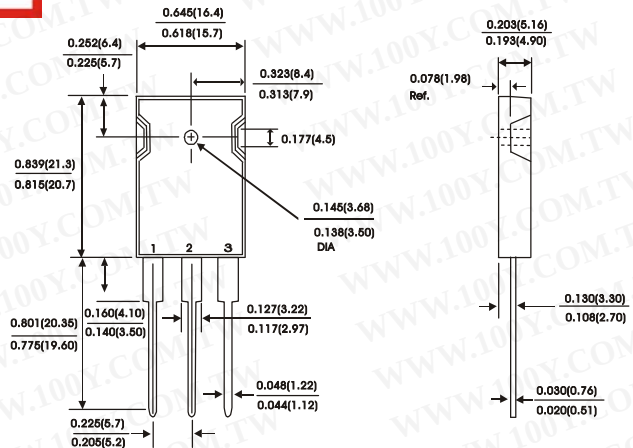
Method 2026

Polarity : As marked

Mounting Position : Any

Mounting Torque 10 in - lbs. max

Weight : 0.20 ounce, 5.6 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	SRL40L15PT	Units
Maximum recurrent peak reverse voltage	V_{RRM}	15	Volts
Maximum RMS voltage	V_{RMS}	11	Volts
Maximum DC blocking voltage	V_{DC}	15	Volts
Maximum average forward rectified current at $T_c = 105^\circ\text{C}$	I_o	40	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I_{FSM}	340	Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) $I_F = 20A$	V_F	0.41	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2) $T_c = 25^\circ\text{C}$ $T_c = 100^\circ\text{C}$	I_R	6.0 500	mA
Typical thermal resistance(Per leg)(NOTE 1)	R_{th-JC}	1.6	$^\circ\text{C}/W$
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

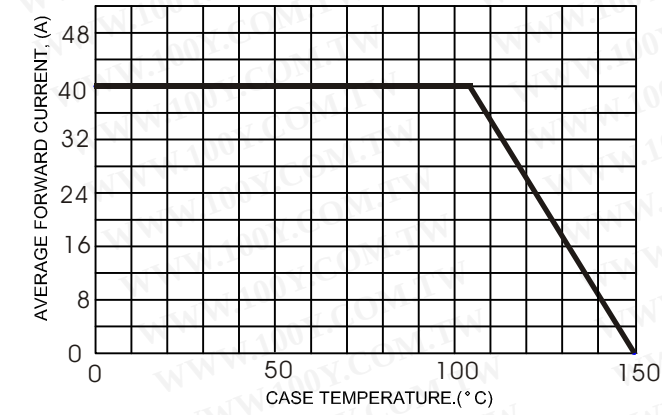


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

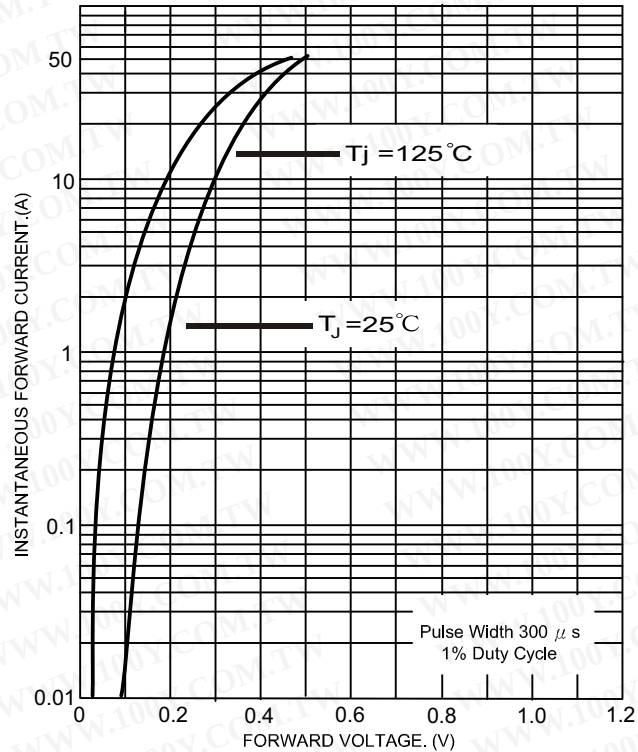
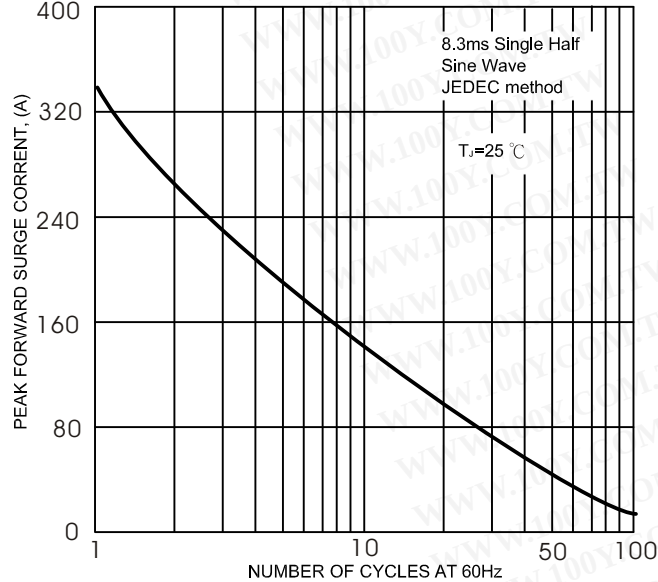


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.4- TYPICAL JUNCTION CAPACITANCE

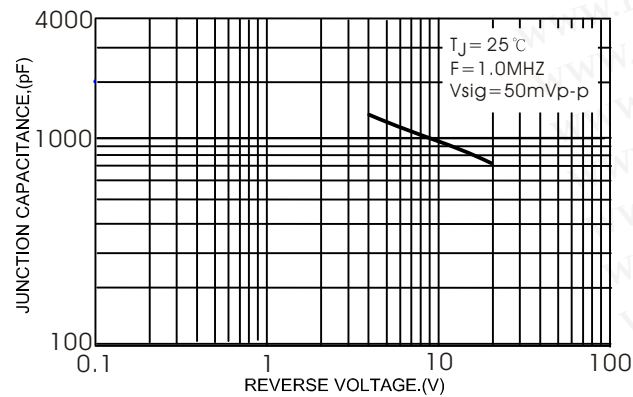


FIG.5- TYPICAL REVERSE CHARACTERISTICS

