

SRL10L30

SCHOTTKY BARRIER RECTIFIERS

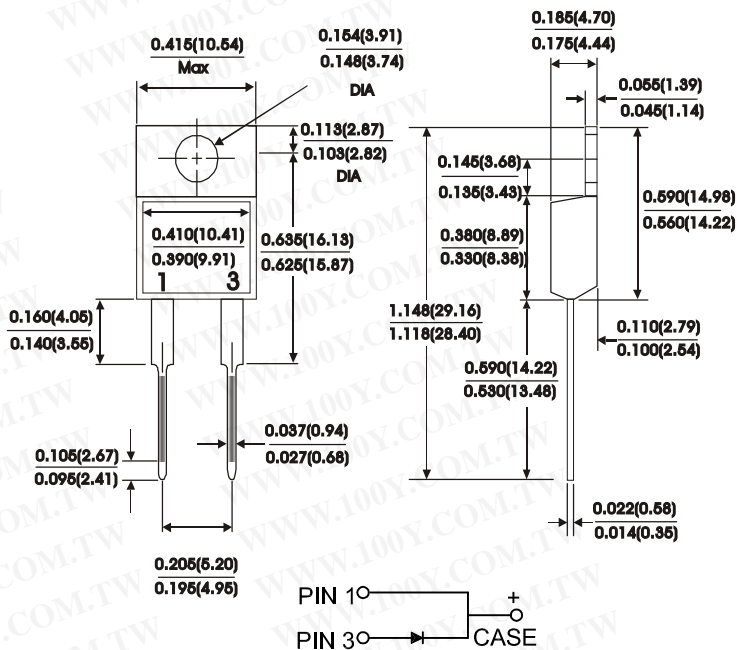
TO-220 AC

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



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	SRL10L30	Units
Maximum recurrent peak reverse voltage	V_{RRM}	30	Volts
Maximum RMS voltage	V_{RMS}	21	Volts
Maximum DC blocking voltage	V_{DC}	30	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	0.52	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	1.0 100	mA
Typical thermal resistance (NOTE 1)	R_{th-JC}	4.3	$^\circ\text{C}/\text{W}$
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

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RATINGS AND CHARACTERISTIC CURVES SRL 10L30

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

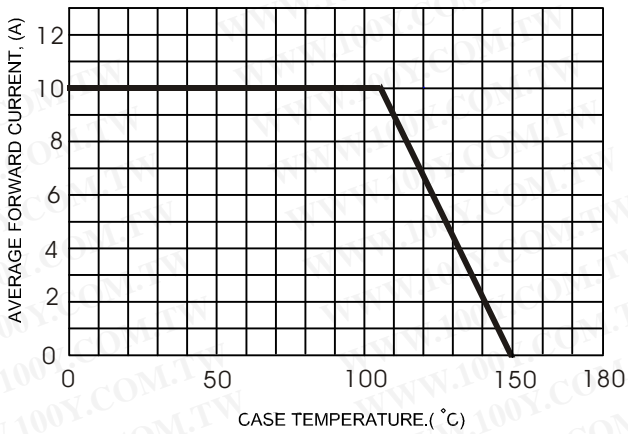


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

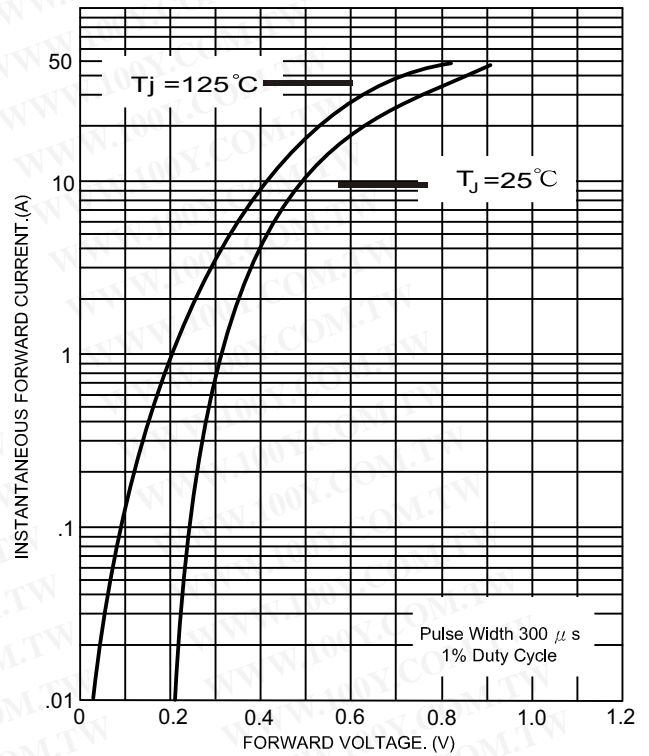


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

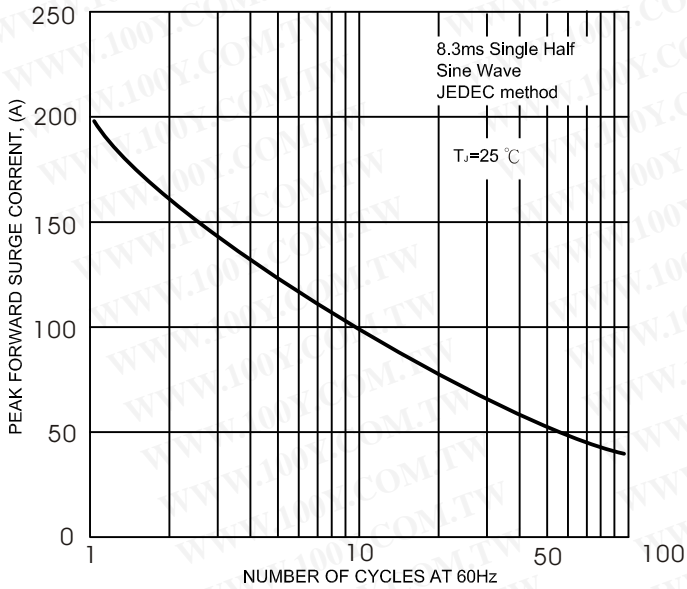


FIG.5- TYPICAL REVERSE CHARACTERISTICS

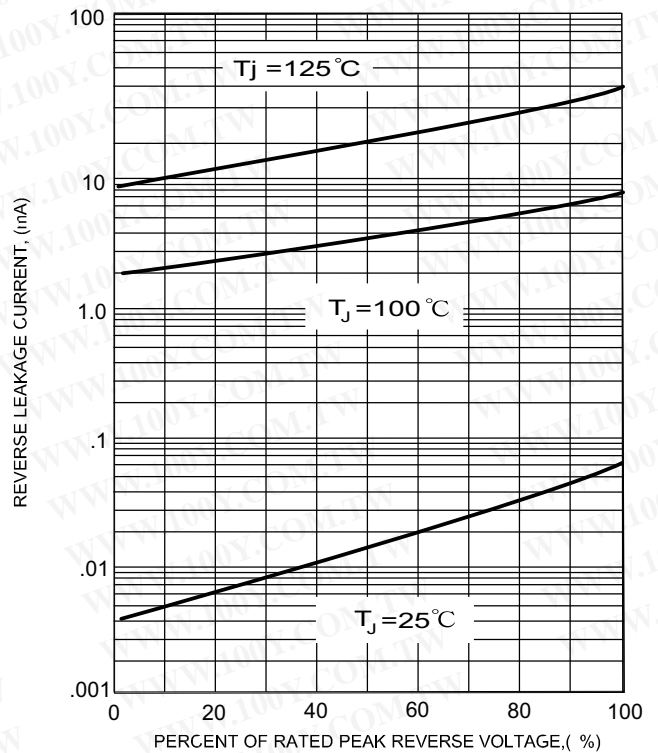
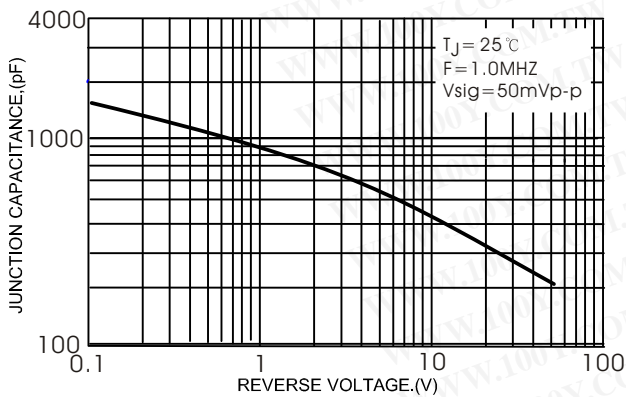


FIG.4- TYPICAL JUNCTION CAPACITANCE



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