

SRL25L20CT THUR SRL25L30CT

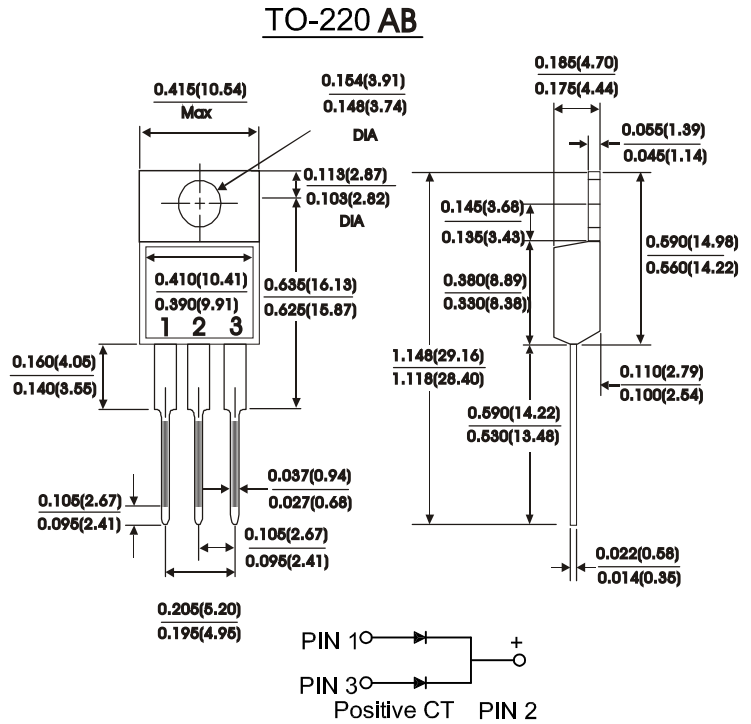
SCHOTTKY BARRIER RECTIFIERS

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



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	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 $T_c = 105^\circ\text{C}$	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) $T_c = 25^\circ\text{C}$ $T_c = 100^\circ\text{C}$	I_R	0.90 50			mA
Typical thermal resistance(Per leg)(NOTE 1)	R_{th-JC}	1.5			$^\circ\text{C}/\text{W}$
Operating temperature range	T_J	-40to +125			$^\circ\text{C}$
Storage temperature range	T_{Stg}	-40to +125			$^\circ\text{C}$

NOTES:

- (1) Thermal resistance from junction to case
 (2) Pulse test : 300 us pulse width, 1% duty cycle
 (3) Marking : SRL25L20CT = SRL25L20 (Without Marking "CT")
 Symbol Marking

RATINGS AND CHARACTERISTIC CURVES SRL25L20CT THRU SRL25L30CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

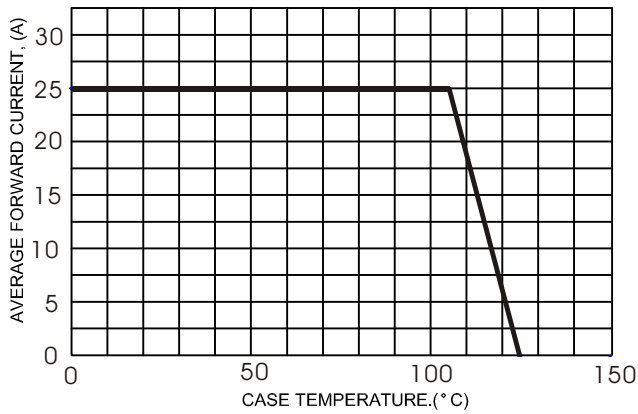


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

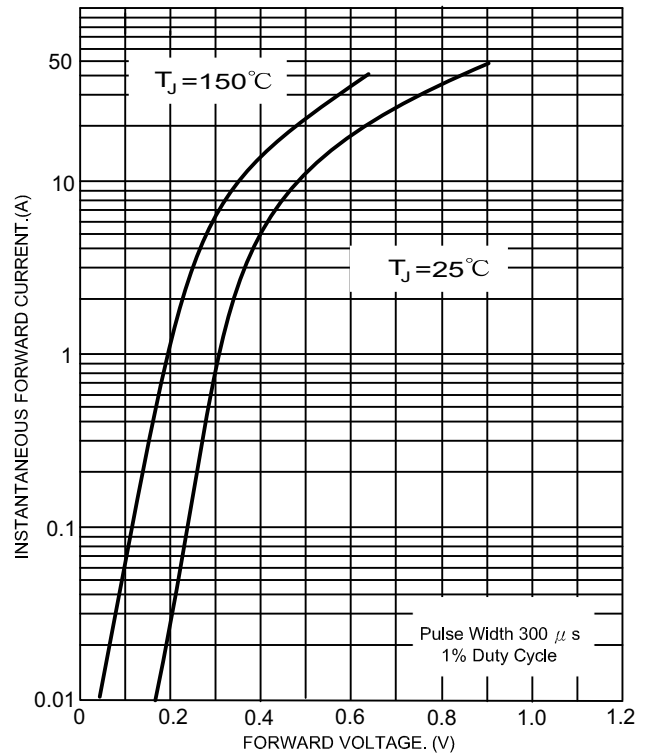


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

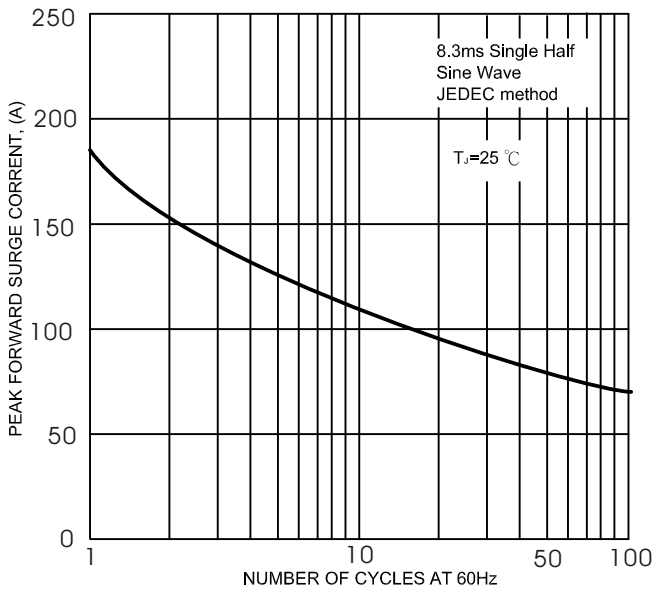


FIG.5- TYPICAL REVERSE CHARACTERISTICS

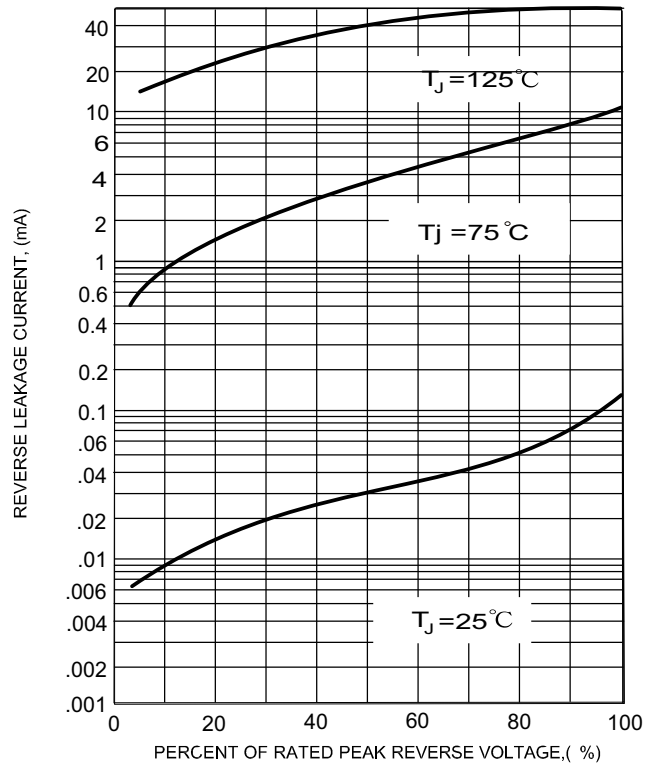


FIG.4- TYPICAL JUNCTION CAPACITANCE

