

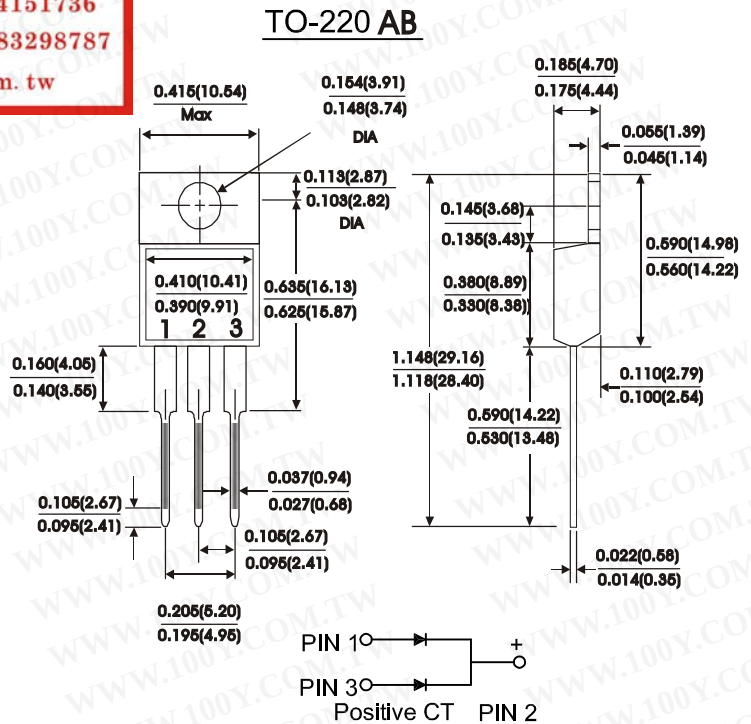
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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	SRL1020CT	SRL1030CT	SRL1040CT	Units
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	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)(Per leg)	I_{FSM}	110			Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) $I_F = 5.0A$	V_F	0.55			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	0.5 50			mA
Typical thermal resistance(Per leg)(NOTE 1)	R_{th-JC}	3.0			$^\circ\text{C/W}$
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 : SRL1020CT = SRL1020 (Without Marking "CT")

Symbol Marking

RATINGS AND CHARACTERISTIC CURVES SRL1020CT THRU SRL1040CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

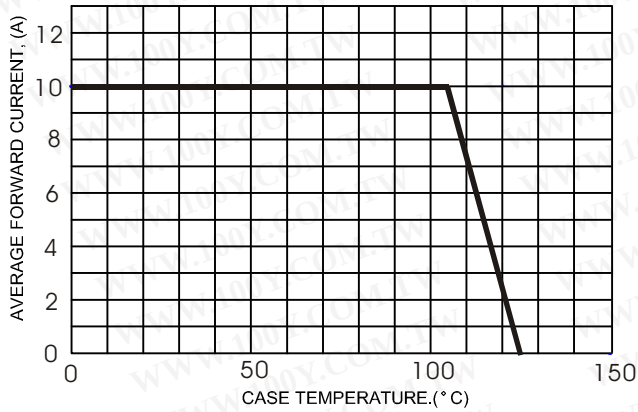


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

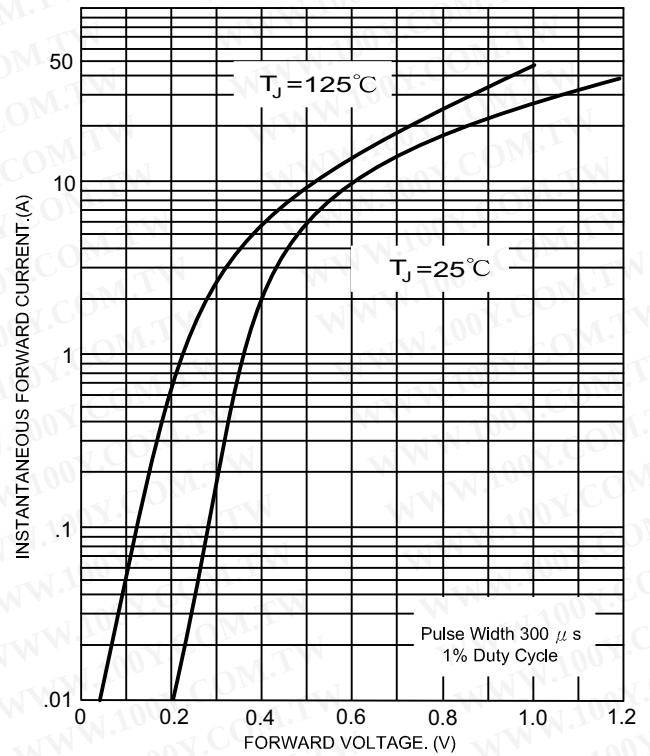
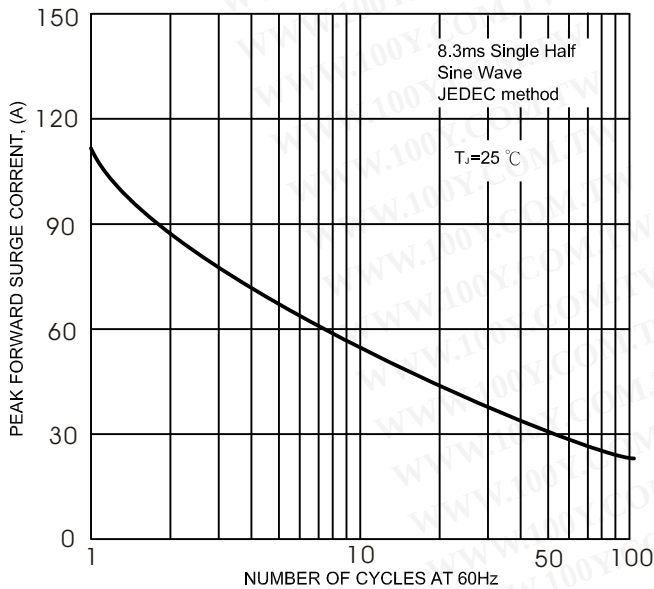


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.5 - TYPICAL REVERSE CHARACTERISTICS

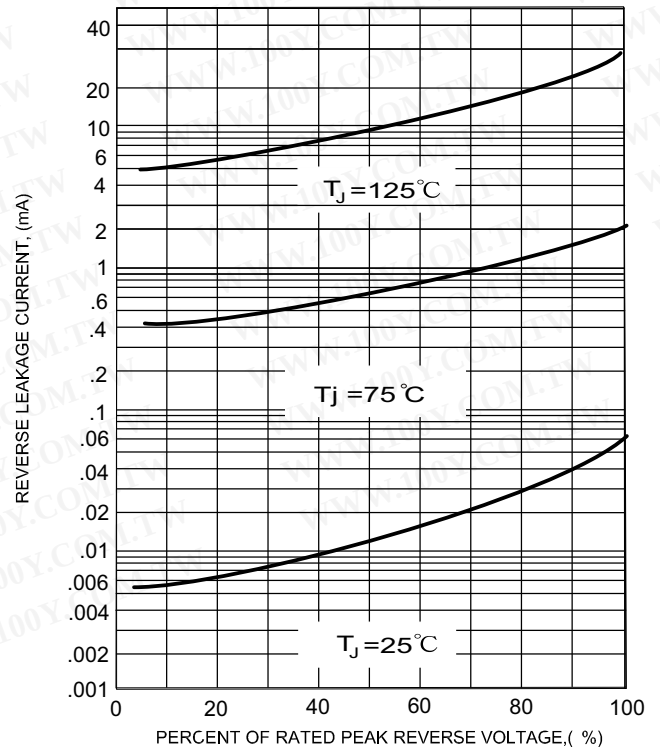


FIG.4 - TYPICAL JUNCTION CAPACITANCE

