

SRF30H20CT THUR SRF30H60CT

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)

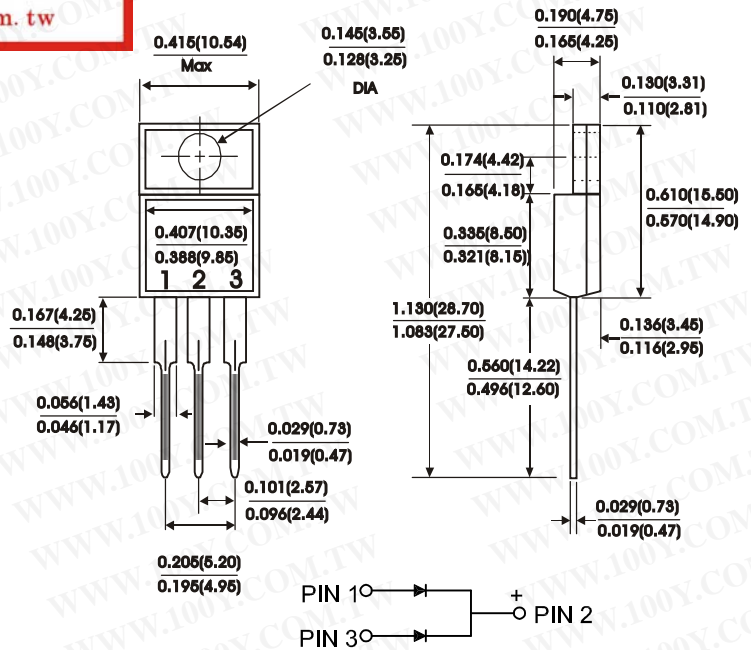
FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- 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 ITO-220AB 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

ITO-220AB



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	SRF 30H20CT	SRF 30H30CT	SRF 30H35CT	SRF 30H40CT	SRF 30H45CT	SRF 30H50CT	SRF 30H60CT	Units
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V_{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	V_{DC}	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at See fig. 1	$I_{(AV)}$	30							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I_{FSM}	150							Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2) $I_F = 15A$	V_F	0.62					0.68		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2) $T_c = 25^\circ C$ $T_c = 125^\circ C$	I_R	200				30			μA mA
Typical thermal resistance (Per leg)(NOTE 1)	R_{th-JC}	4.5							°C/W
Operating temperature range	T_J	-65 to +175							°C
Storage temperature range	T_{Stg}	-65 to +175							°C

NOTES:

- (1) Thermal resistance from junction to case
- (2) Pulse test : 300 us pulse width, 1% duty cycle
- (3) Marking : $\frac{SRF30H20CT}{Symbol} = \frac{SRF30H20}{Marking}$ (Whitout Marking "CT")

RATINGS AND CHARACTERISTIC CURVES SRF30H20CT THRU SRF30H60CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

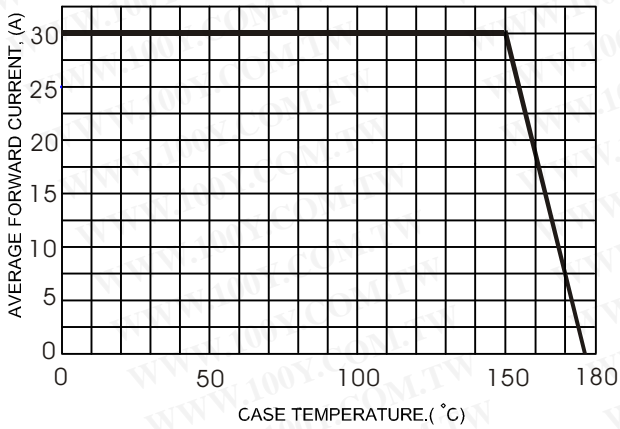


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

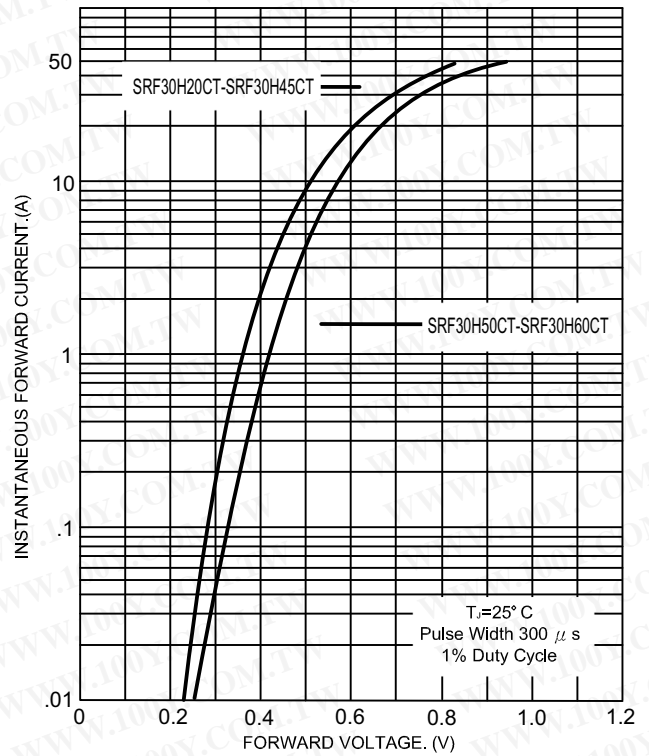
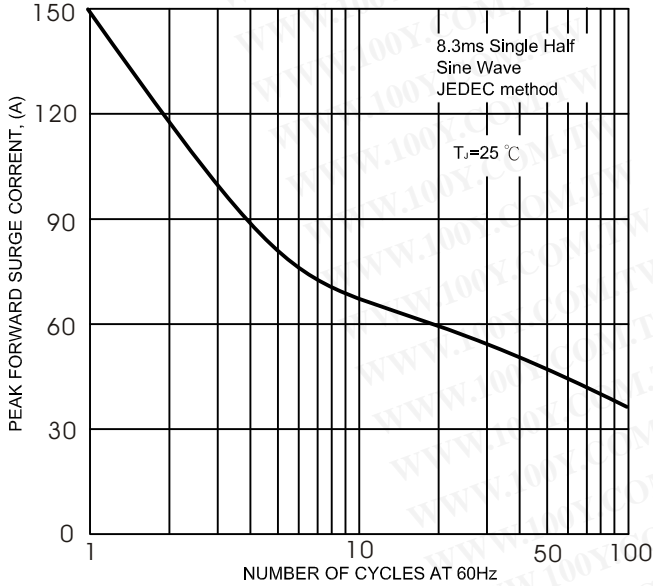


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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FIG.5- TYPICAL REVERSE CHARACTERISTICS

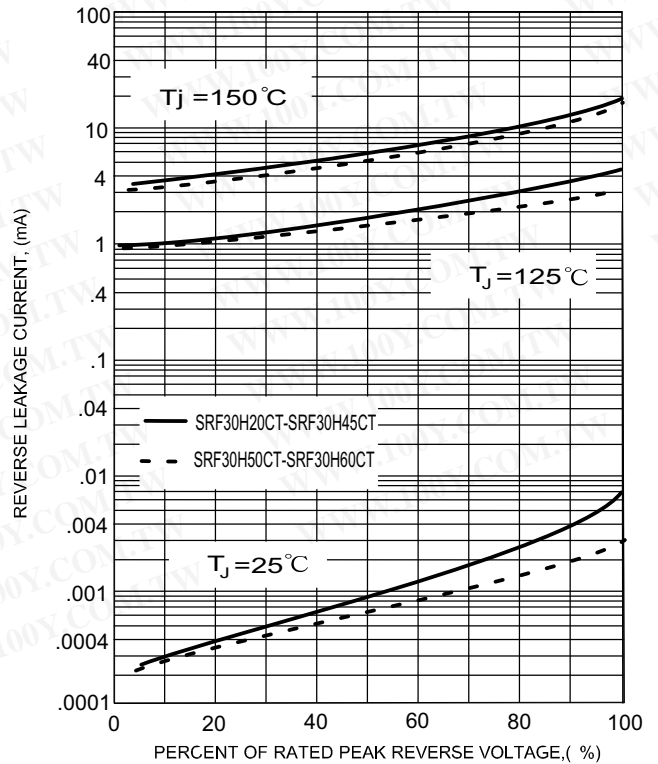


FIG.4- TYPICAL JUNCTION CAPACITANCE

