

# SR25H20CT THUR SR25H60CT

## 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)

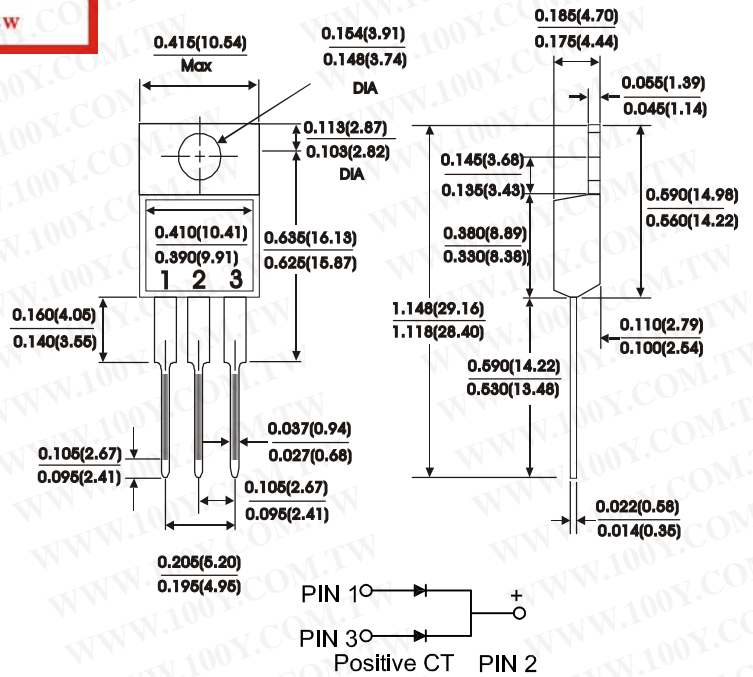
### FEATURES:

- 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 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

### TO-220 AB



### 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	SR	SR	SR	SR	SR	SR	SR	Units
		25H20CT	25H30CT	25H35CT	25H40CT	25H45CT	25H50CT	25H60CT	
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	$I_o$	25							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)	$V_F$	0.64					0.70		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2)	$I_R$	0.2					20		mA
Typical thermal resistance(Per leg)(NOTE 1)	$R_{th-JC}$	1.5							°C/W
Operating temperature range	$T_J$	-65to +175							°C
Storage temperature range	$T_{Stg}$	-65to +175							°C

#### NOTES:

- (1) Thermal resistance from junction to case  
 (2) Pulse test : 300 us pulse width, 1% duty cycle  
 (3) Marking : SR25H20CT = SR25H20 (Without Marking "CT")

# RATINGS AND CHARACTERISTIC CURVES SR25H20CT THRU SR25H60CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

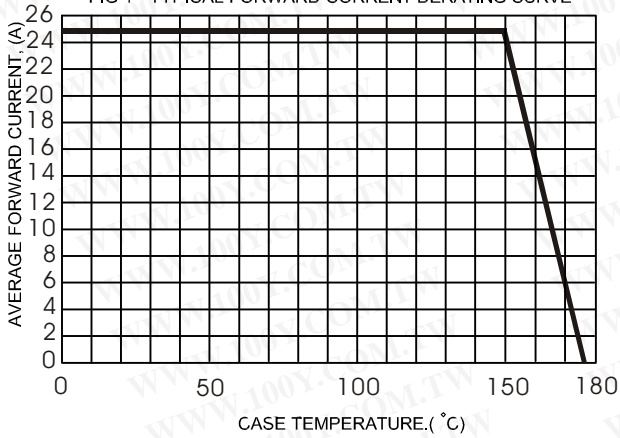
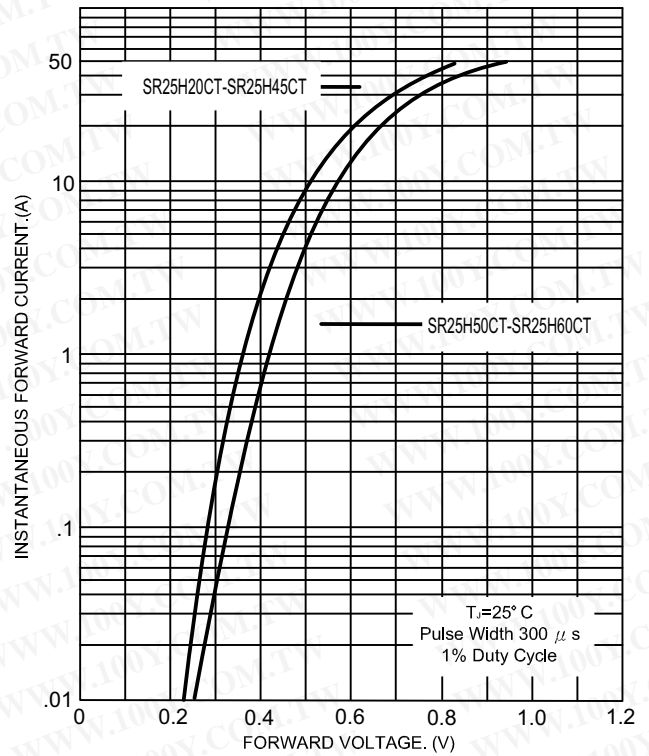


FIG.2 - TYPICAL FORWARD CHARACTERISTICS



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FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

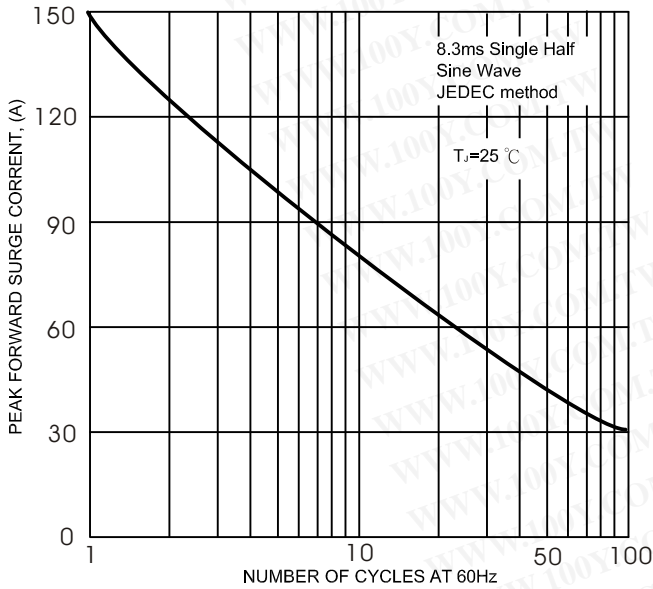


FIG.5- TYPICAL REVERSE CHARACTERISTICS

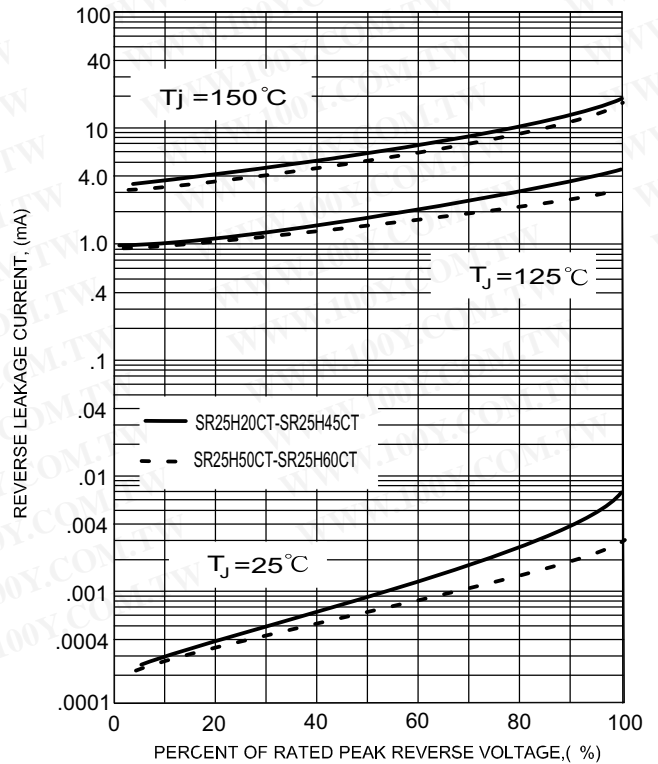


FIG.4- TYPICAL JUNCTION CAPACITANCE

