

# SR20H20CT      THUR      SR20H60CT

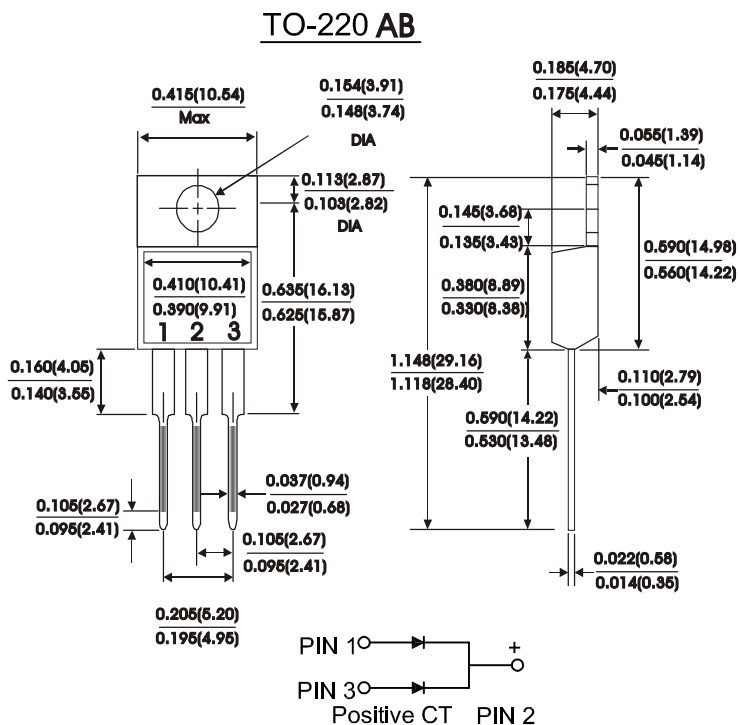
## SCHOTTKY BARRIER RECTIFIERS

### 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	SR	SR	SR	SR	SR	SR	SR	Units
		20H20CT	20H30CT	20H35CT	20H40CT	20H45CT	20H50CT	20H60CT	
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 figure 1	$I_O$	20							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) $I_F = 10A$	$V_F$	0.63					0.71		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2) $T_c = 25^\circ C$ $T_c = 125^\circ C$	$I_R$	100				12			$\mu A$ mA
Typical thermal resistance(Per leg)(NOTE 1)	$R_{th-JC}$	2.0							°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 :  $\frac{SR20H20CT}{Symbol \quad Marking} = \frac{SR20H20}{Marking}$  (Without Marking "CT")

# RATINGS AND CHARACTERISTIC CURVES SR20H20CT THRU SR20H60CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

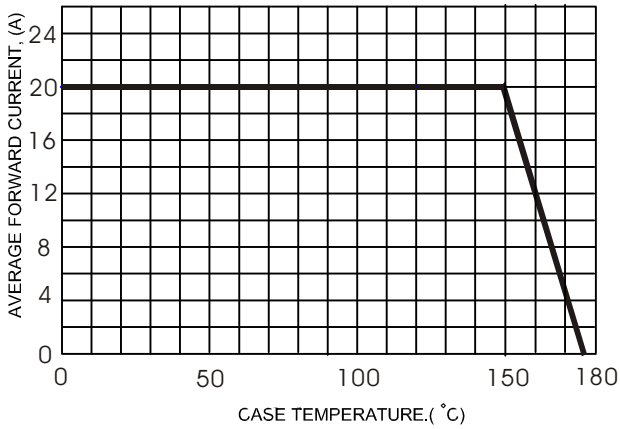


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

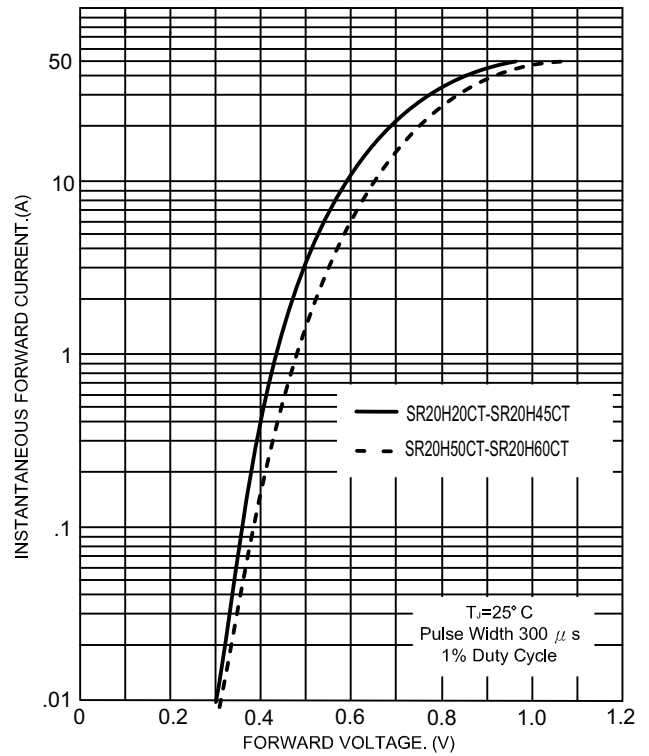


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

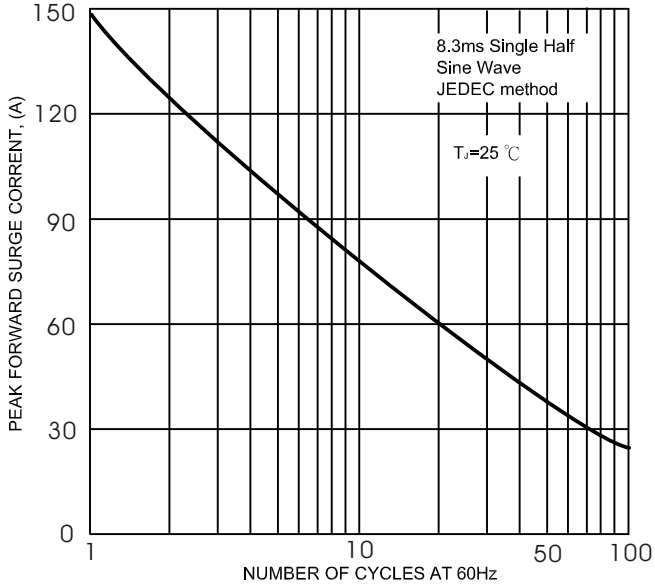


FIG.5- TYPICAL REVERSE CHARACTERISTICS

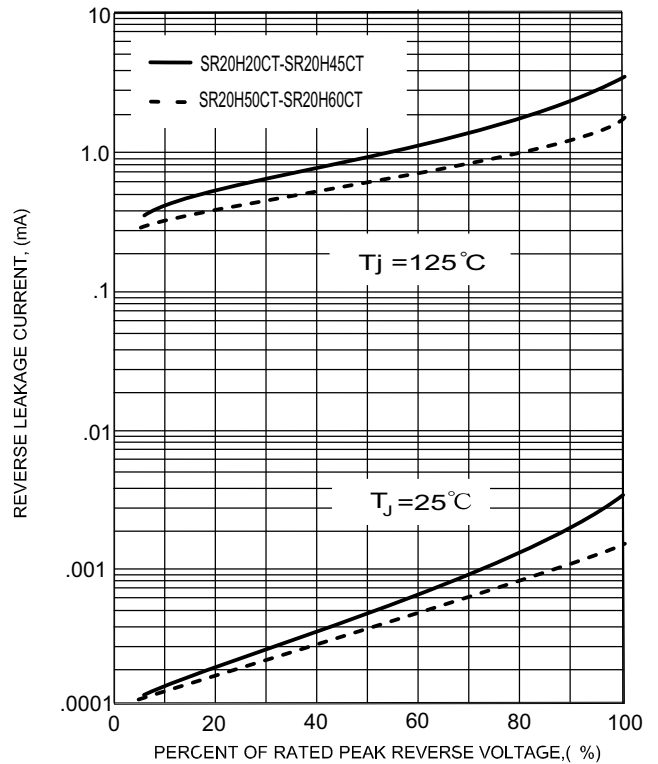


FIG.4- TYPICAL JUNCTION CAPACITANCE

