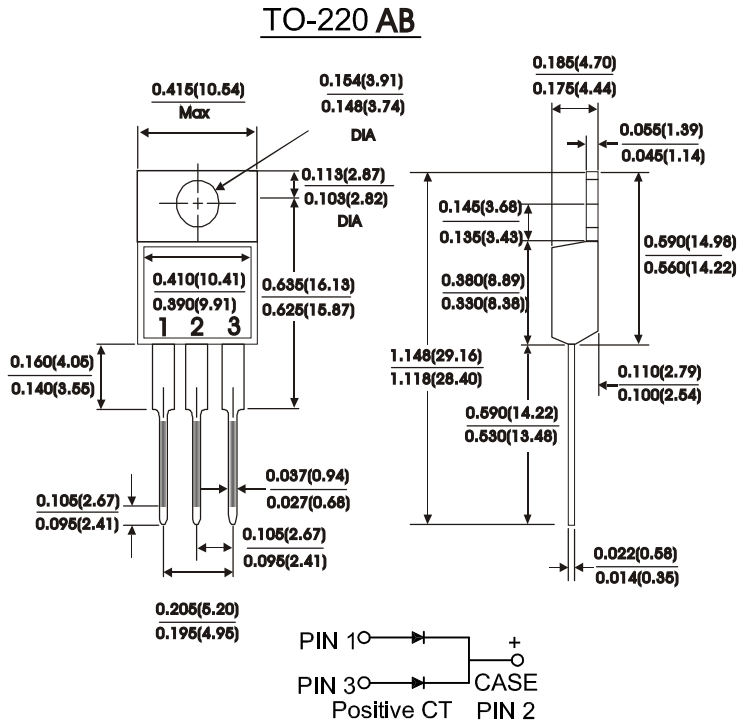


FEATURES:

- 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             | SR20H90CT  | SR20H100CT | Units    |
|---|--------------------|------------|------------|----------|
| Maximum recurrent peak reverse voltage  | V <sub>RRM</sub>   | 90         | 100        | Volts    |
| Maximum RMS voltage   | V <sub>RMS</sub>   | 63         | 70         | Volts    |
| Maximum DC blocking voltage   | V <sub>DC</sub>    | 90         | 100        | Volts    |
| Maximum average forward rectified current at See fig- 1   | I <sub>O</sub>     | 20         |            | Amps     |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg) | I <sub>FSM</sub>   | 150        |            | Amps     |
| Maximum instantaneous forward voltage (Per leg)(NOTE 2) IF= 10A   | V <sub>F</sub>     | 0.77       |            | Volts    |
| Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2) Tc= 25°C Tc= 125°C   | I <sub>R</sub>     | 100<br>12  |            | uA<br>mA |
| Typical thermal resistance (Per leg)(NOTE 1)  | R <sub>th-JC</sub> | 2.7        |            | °C/W     |
| Operating temperature range   | T <sub>J</sub>     | -65to +175 |            | °C       |
| Storage temperature range   | T <sub>Stg</sub>   | -65to +175 |            | °C       |

NOTES:  
 (1) Thermal resistance from junction to case  
 (2) Pulse test : 300 us pulse width, 1% duty cycle  
 (3) Marking : SR20H90CT = SR20H90 (Without Marking "CT")  
 Symbol Marking

# RATINGS AND CHARACTERISTIC CURVES SR20H90CT THRU SR20H100CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

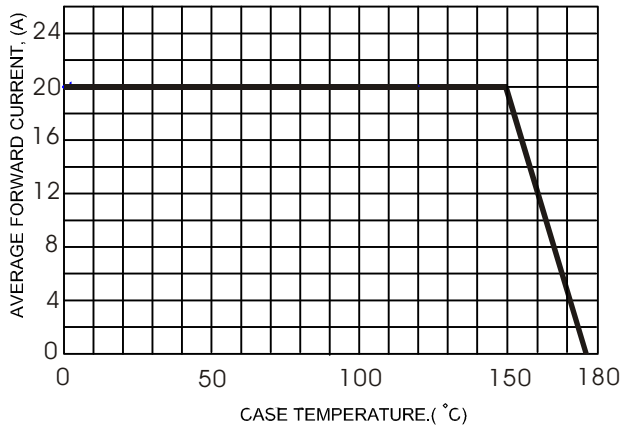


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

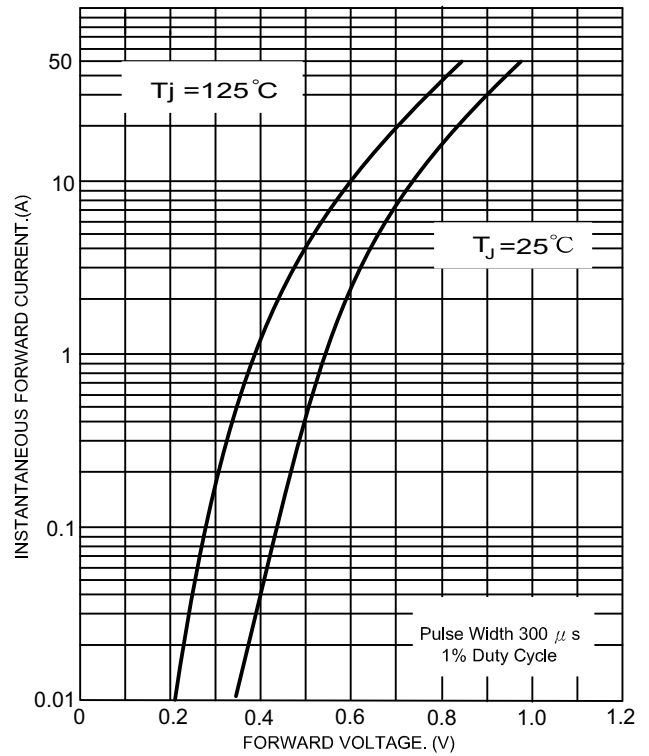


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

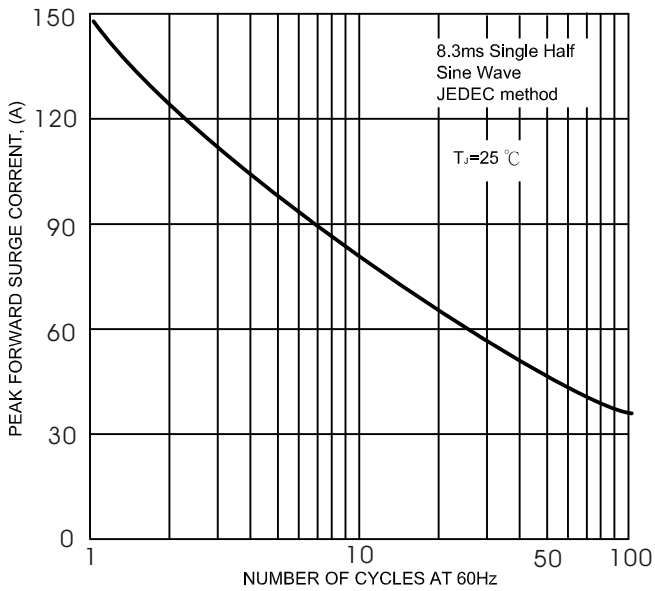


FIG.5- TYPICAL REVERSE CHARACTERISTICS

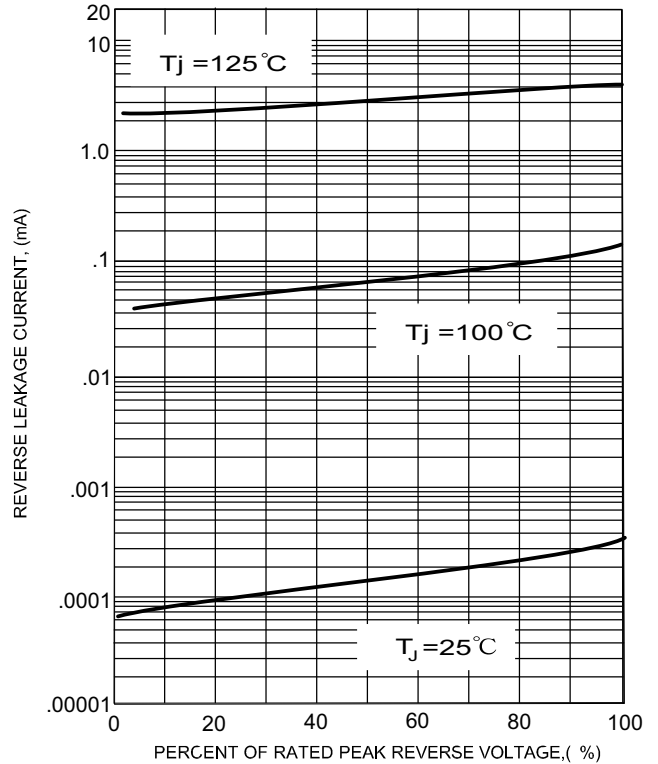


FIG.4- TYPICAL JUNCTION CAPACITANCE

