

SR15H20CT THUR SR15H60CT

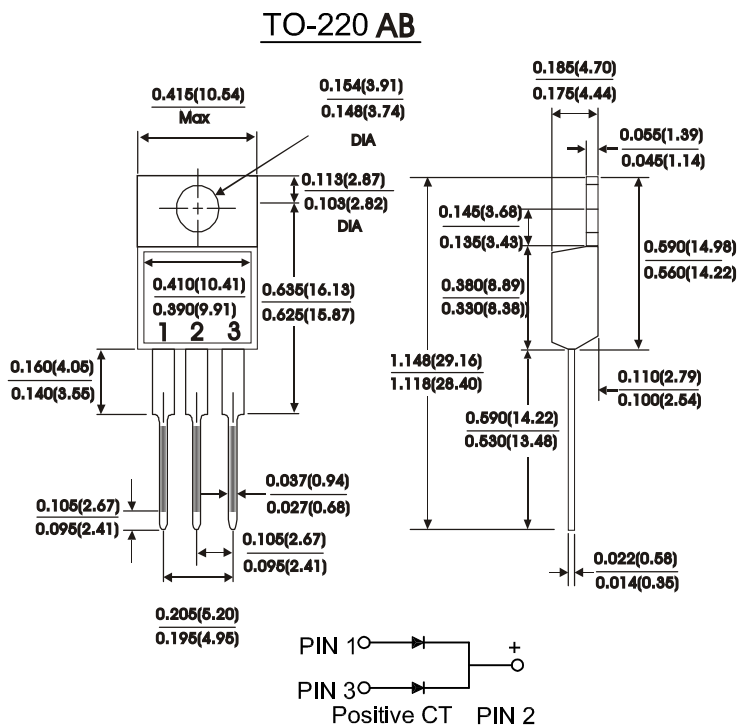
SCHOTTKY BARRIER RECTIFIERS

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 |
|----------------------------------------------------------------------------------------------------------------------------|-------------|-----------|---------|---------|---------|---------|---------|---------|---------------|
| | | 15H20CT | 15H30CT | 15H35CT | 15H40CT | 15H45CT | 15H50CT | 15H60CT | |
| 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 | 15 | | | | | | | 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) $I_F=7.5A$ | V_F | 0.63 | | | | | 0.73 | | 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 | 50 | | | | | 10 | | μA mA |
| Typical thermal resistance (Per leg)(NOTE 1) | R_{th-JC} | 3.0 | | | | | | | °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 : SR15H20CT = SR15H20 (Without Marking "CT")
 Symbol Marking

RATINGS AND CHARACTERISTIC CURVES SR15H20CT THRU SR15H60CT

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

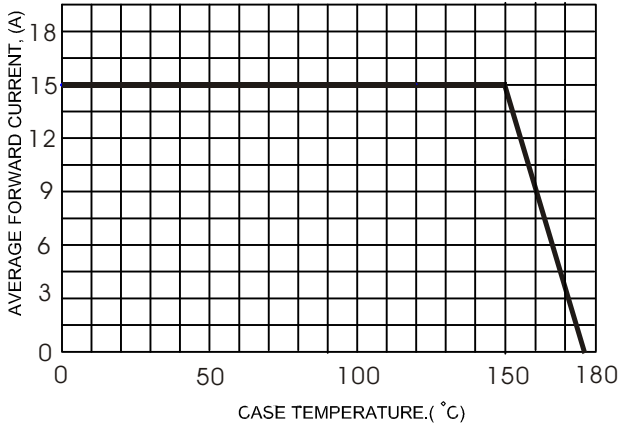


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

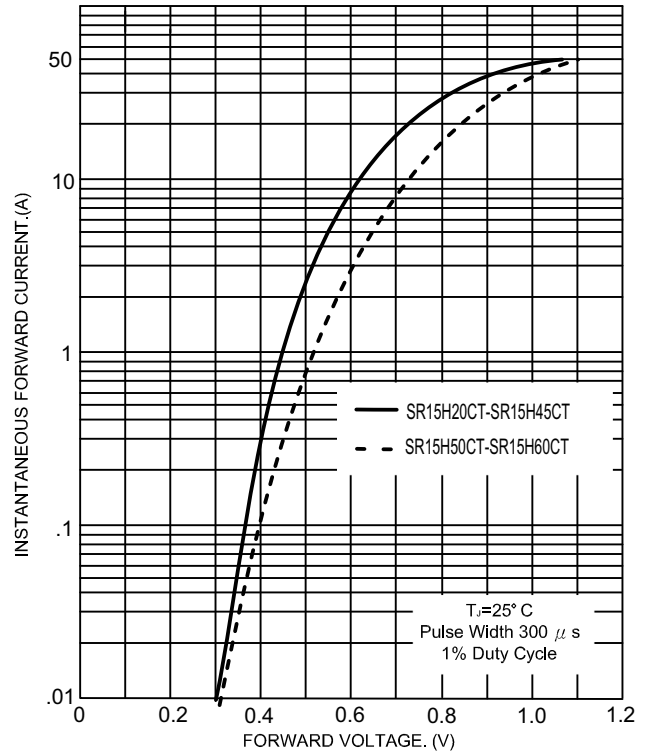


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

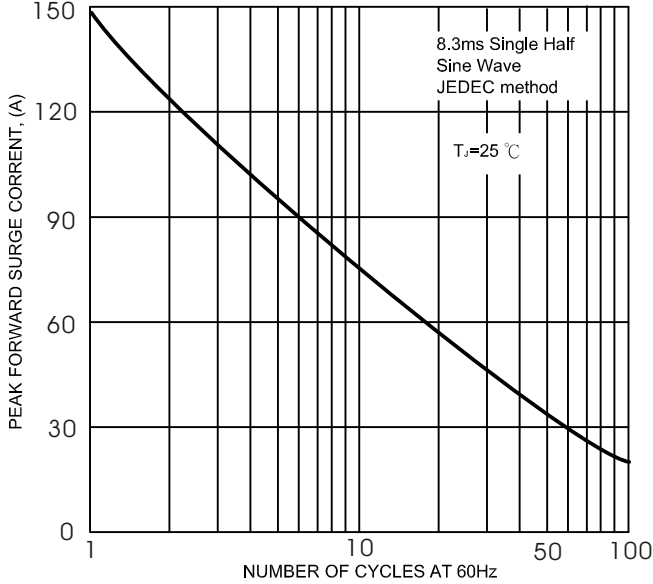


FIG.5- TYPICAL REVERSE CHARACTERISTICS

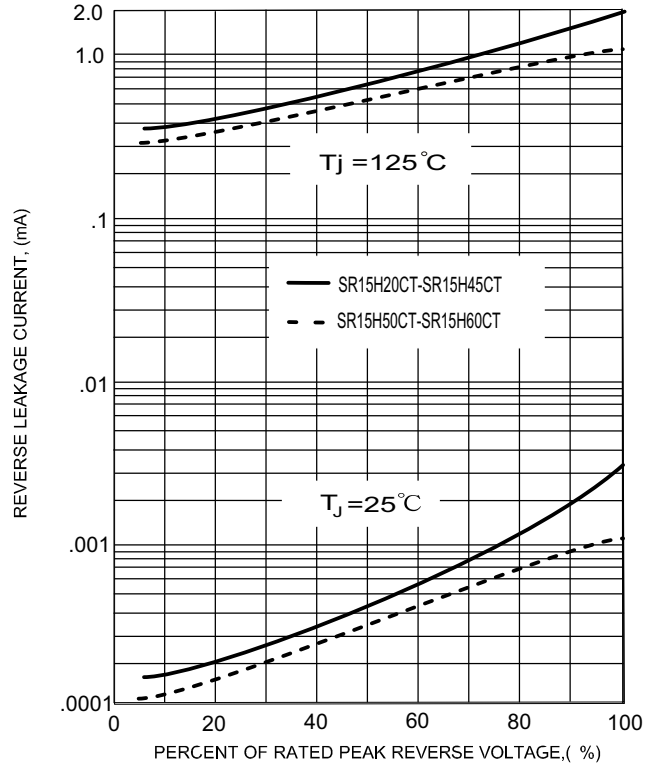


FIG.4- TYPICAL JUNCTION CAPACITANCE

