

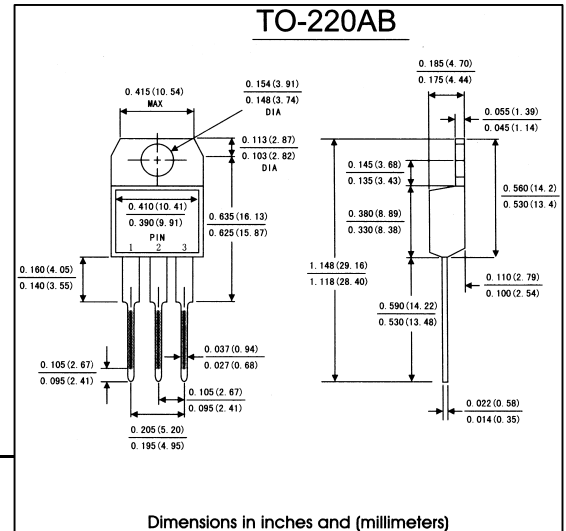
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling , and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed: 250°C/10 seconds

0.25"(6.35mm)from case

MECHANICAL DATA

- Case:** JEDEC DO-220AB molded plastic body
- Terminals:** lead solderable per MIL-STD-750,method 2026
- Polarity:** As marked. No suffix indicates Common Cathode, suffix "A" indicates Common Anode
- Mounting Position:** Any
- Weight:** 0.08 ounce, 2.24 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified,Single phase,half wave,resistive or inductive) load. For capacitive load,derate by 20%)

| | | Symbols | SR1535 | SR1545 | SR1550 | SR1560 | Units |
|--|--|-------------------|-------------|--------|--------|--------|-------|
| Maximum repetitive peak reverse voltage | | V _{RRM} | 35 | 45 | 50 | 60 | Volts |
| Maximum RMS voltage | | V _{RMS} | 25 | 32 | 35 | 42 | Volts |
| Maximum DC blocking voltage | | V _{DC} | 35 | 45 | 50 | 60 | Volts |
| Macimum average forward rectified current(see Fig.1) | | I _(AV) | 7.5 15.0 | | | | Amps |
| Repetitive peak forward current(square wavr, 20KHz) at Tc=105℃ | | I _{FRM} | 15.0 | | | | Amps |
| Peak forward surge current 8.3ms singel half sine-wave superimposed on rated load (JEDEC method) | | I _{FSM} | 150.0 | | | | Amps |
| Maximum instantaneous forward voltage at 10 A(Note 1) | | V _F | 0.65 | | | | |

Notes: 1. Pulse test: 300 μs pulse width,1% duty cycle

2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR1535 THRU SR1560

FIG.1-FORWARD CURRENT DERATING CURVE

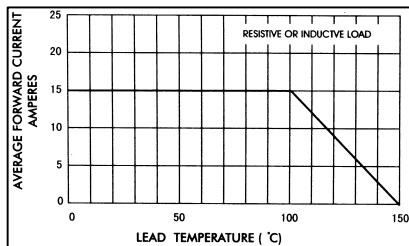


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

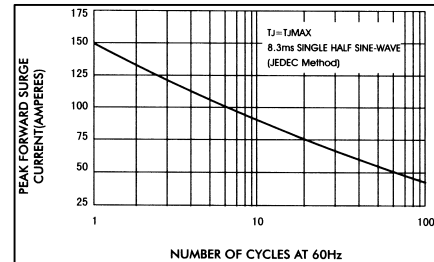


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

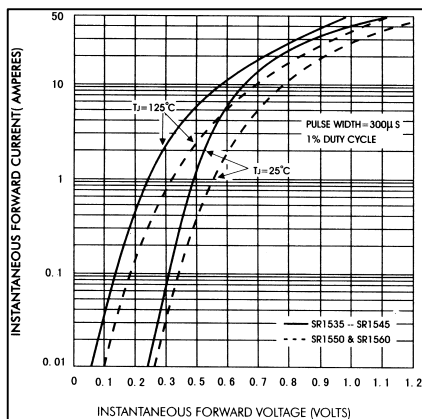


FIG.4-TYPICAL REVERSE CHARACTERISTICS

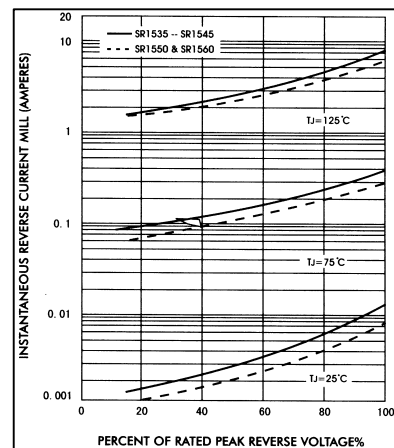


FIG.5-TYPICAL JUNCTION CAPACITANCE

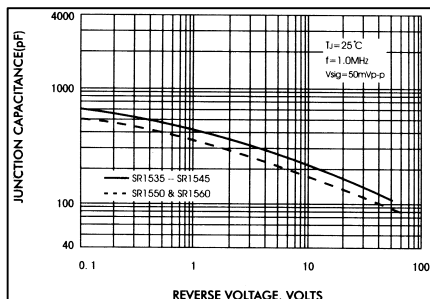


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

