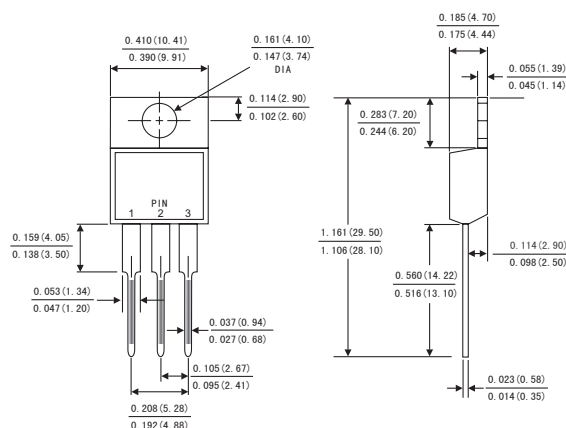


FEATURES

- 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:260° C/10 seconds,, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2011/65/EU



TO-220AB



MECHANICAL DATA

- Case: JEDEC TO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750.method 2026
- Polarity: As marked
- Mounting Position: Any

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 | SR 2020CT | SR 2030CT | SR 2045CT | SR 2060CT | SR 20100CT | SR 20150CT | SR 20200CT | Units | |
|--|---------------------|------------|-----------|-----------|-----------|------------|------------|------------|-------|--------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 20 | 30 | 45 | 60 | 100 | 150 | 200 | Volts | |
| Maximum RMS voltage | V_{RMS} | 14 | 21 | 32 | 42 | 70 | 105 | 140 | Volts | |
| Maximum DC blocking voltage | V_{DC} | 20 | 30 | 45 | 60 | 100 | 150 | 200 | Volts | |
| Maximum average forward rectified current See Fig. 1 | $I_{(AV)}$ | 10.0 | | | | 20.0 | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 200.0 | | | | | | | | Amps |
| Maximum instantaneous forward voltage per diode @ $I_F=10A$ | V_F | 0.60 | | | 0.75 | 0.85 | 0.90 | 0.95 | Volts | |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 1) | I_R | 200 | | | | 50 | | | | μA |
| | $T_c = 25^\circ C$ | 5 | | | | - | | | | mA |
| | $T_c = 100^\circ C$ | - | | | | 5 | | | | mA |
| Typical thermal resistance (Note 2) | $R_{\theta JC}$ | 2.5 | | | | | | | | $^\circ C/W$ |
| Operating junction temperature range | T_J | -65 to+150 | | | | | | | | $^\circ C$ |
| Storage temperature range | T_{STG} | -65 to+150 | | | | | | | | $^\circ C$ |

- Notes:** 1.Pulse test: 300 μ s pulse width,1% duty cycle
2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES SR2020CT THRU SR20200CT

FIG.1-FORWARD CURRENT DERATING CURVE

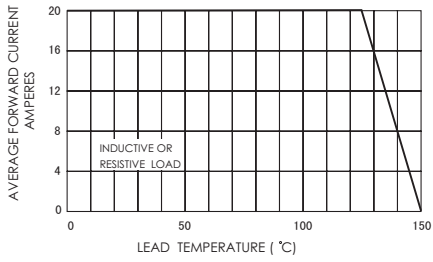


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

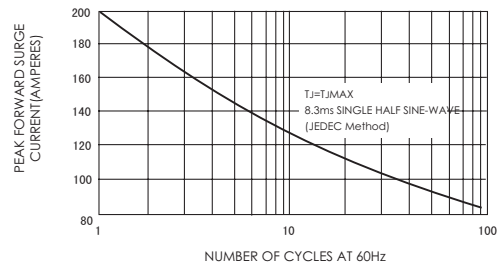


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

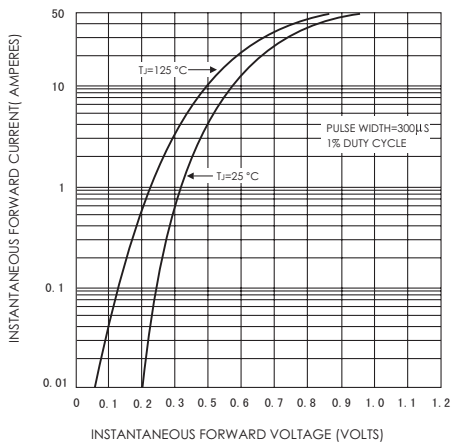


FIG.4-TYPICAL REVERSE CHARACTERISTICS

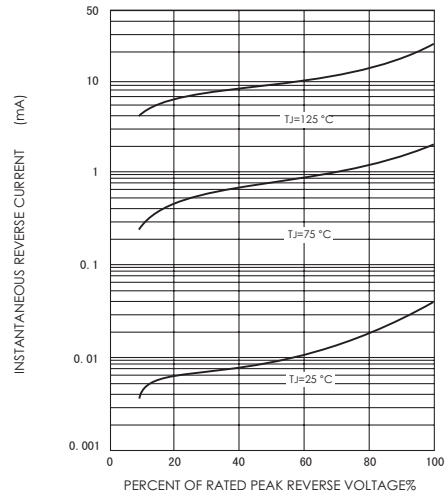
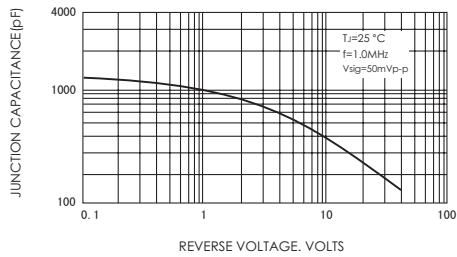


FIG.5-TYPICAL JUNCTION CAPACITANCE



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