

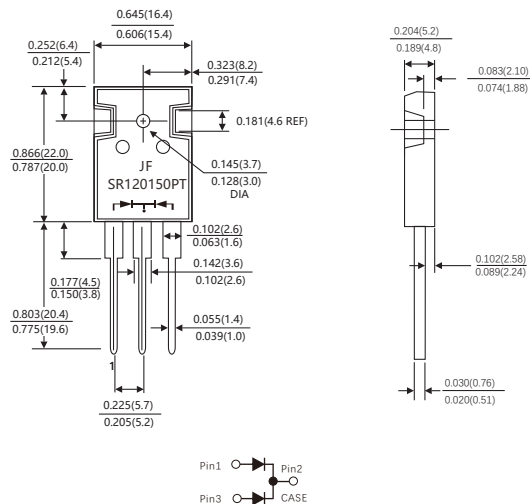
FEATURES

- 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/10s at terminals 0.25"(6.35mm)from case
- Component in accordance to 2015/863/EU

MECHANICAL DATA

- Case: TO-247 molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any

TO-247



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

| Parameters | Symbols | Value | Units |
|---|-----------------------|------------|-------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 150 | V |
| Maximum RMS voltage | V _{RMS} | 106 | V |
| Maximum DC blocking voltage | V _{DC} | 150 | V |
| Maximum average forward rectified current(see Fig.1) | Per leg | 60.0 | A |
| | Total device | 120.0 | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (Per Leg, JEDEC method) | I _{FSM} | 600 | A |
| Maximum Forward voltage at 60A per leg (Note 1) | V _F | 0.95 | V |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 2) | T _J =25°C | 10 | uA |
| | T _J =125°C | 5.0 | mA |
| Typical thermal resistance (Note 3) | R _{θJC} | 0.23 | °C/W |
| Operating junction temperature range | T _J | -55 to+150 | °C |
| Storage temperature range | T _{STG} | -55 to+150 | °C |

- Notes: 1.Pulse test: 300 us pulse width,1% duty cycle
2.Pulse test: pulse width ≤40ms
3.Thermal resistance from junction to case

FIG.1-FORWARD CURRENT DERATING CURVE

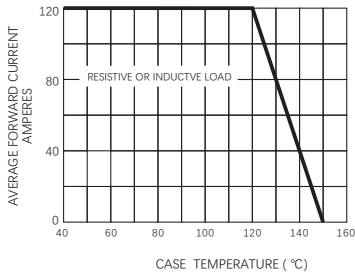


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

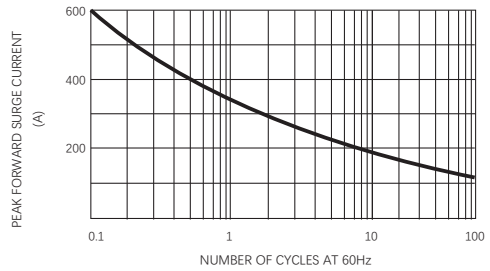


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

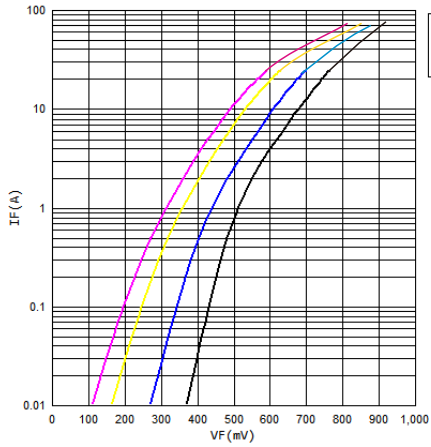
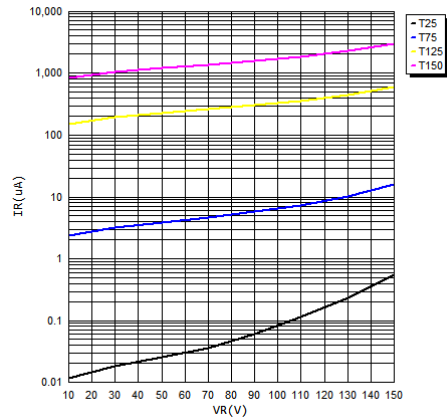


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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