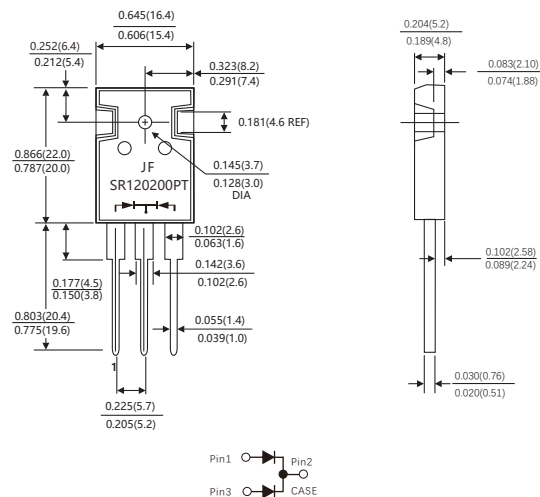


### FEATURES

- 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

### TO-247



### MECHANICAL DATA

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

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 <sub>RRM</sub>	200	V
Maximum RMS voltage	V <sub>RMS</sub>	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	200	V
Maximum average forward rectified current(see Fig.1)	Per leg	60.0	A
	Total device	120.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (Per Leg, JEDEC method)	I <sub>FSM</sub>	600	A
MaximumForward voltage at 60A per leg (Note 1)	V <sub>F</sub>	0.95	V
Maximum instantaneous reverse current at rated DC blocking voltage(Note 2)	T <sub>J</sub> =25°C	20	uA
	T <sub>J</sub> =125°C	10	mA
Typical thermal resistance (Note 3)	R <sub>θJC</sub>	0.23	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to+150	°C
Storage temperature range	T <sub>STG</sub>	-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

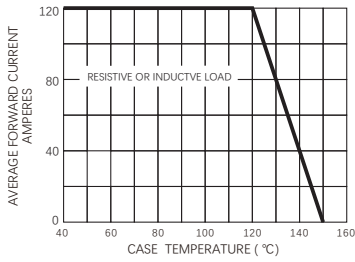


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

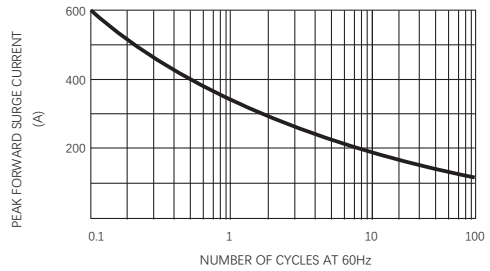


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

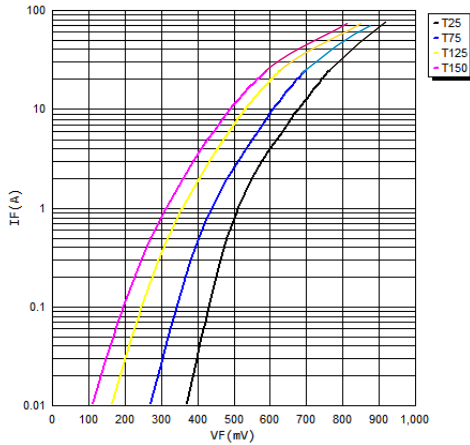
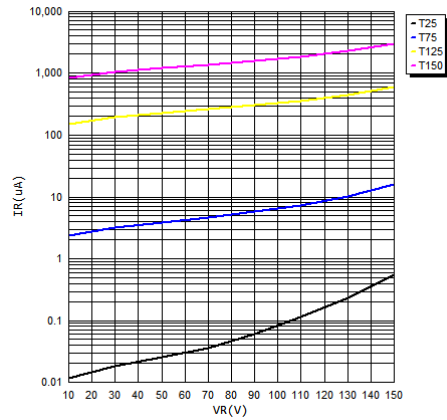


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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