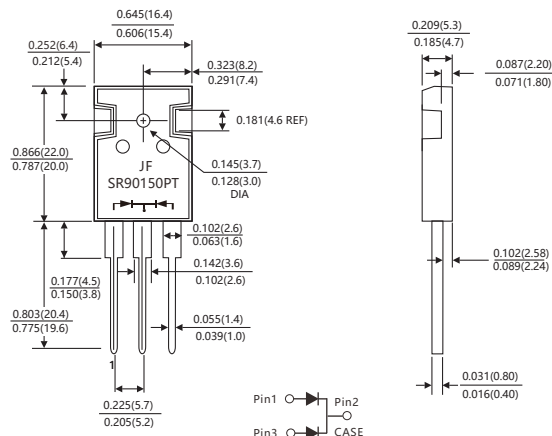


FEATURES

- 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 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)

Paramerters		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}	200				V
Maximum average forward rectified current(see Fig.1)	Per leg	I _{F(AV)}	45.0				A
	Total device		90.0				
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	460				A
Forward voltage at 45A per leg (Note 1)		V _F	TYP.	0.90	MAX.	0.95	V
Maximum instantaneous reverse current at rated DC blocking voltage(Note s1)	T _J =25°C	I _R	TYP.	-	MAX.	50	uA
	T _J =125°C		TYP.	-	MAX.	5.0	mA
Typical thermal resistance (Note s2)		R _{θJC}	0.23				°C/W
Operating junction temperature range		T _J	- 55 to+175				°C
Storage temperature range		T _{STG}	- 55 to+175				°C

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

RATINGS AND CHARACTERISTIC OF SR90150PT

FIG.1-FORWARD CURRENT DERATING CURVE

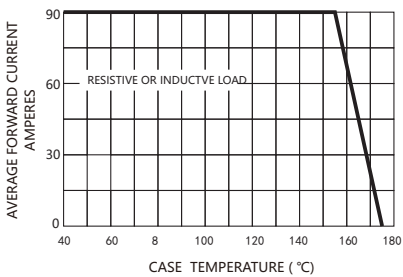


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

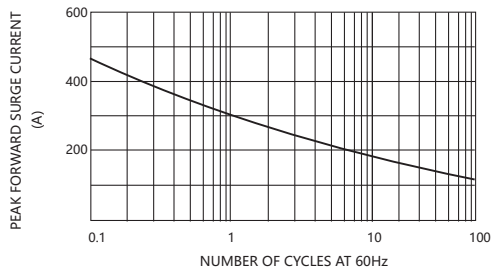


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

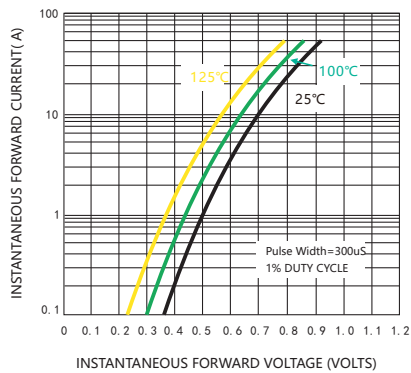
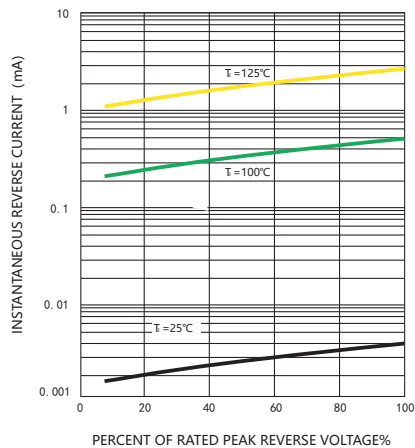


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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