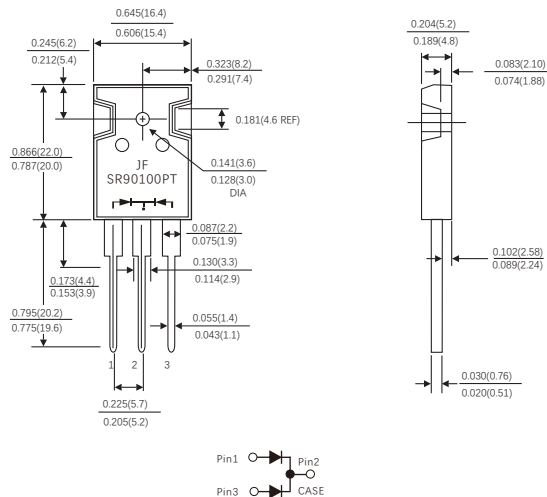


FEATURES

- 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-247AB



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: TO-247AB 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)

Parameters	Symbols	Value				Units
Maximum repetitive peak reverse voltage	V_{RRM}	100				V
Maximum RMS voltage	V_{RMS}	70				V
Maximum DC blocking voltage	V_{DC}	100				V
Maximum average forward rectified current(see Fig.1)	Per leg	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.	0.75	MAX.	0.85	V
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_J=25^{\circ}C$	TYP.	-	MAX.	20	μA
	$T_J=125^{\circ}C$	TYP.	-	MAX.	5.0	mA
Typical thermal resistance (Note 2)	$R_{\theta JC}$	0.23				$^{\circ}C/W$
Operating junction temperature range	T_J	-55 to+150				$^{\circ}C$
Storage temperature range	T_{STG}	-55 to+150				$^{\circ}C$

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

FIG.1-FORWARD CURRENT DERATING CURVE

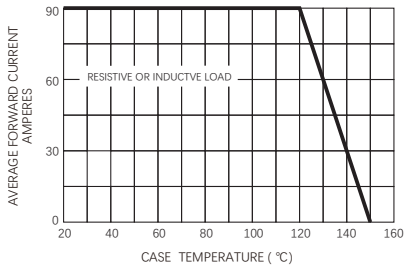


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

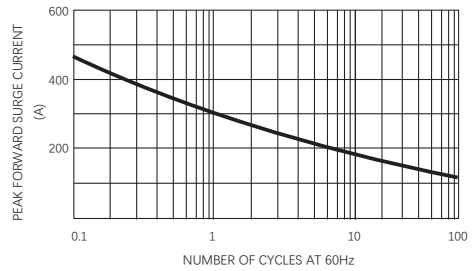


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

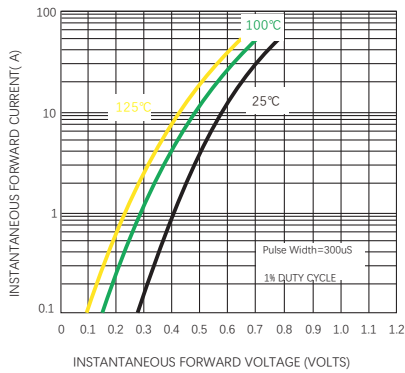
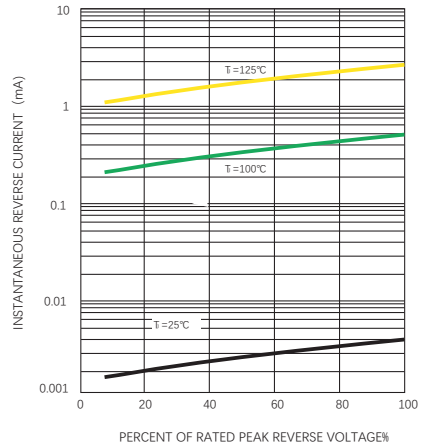


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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