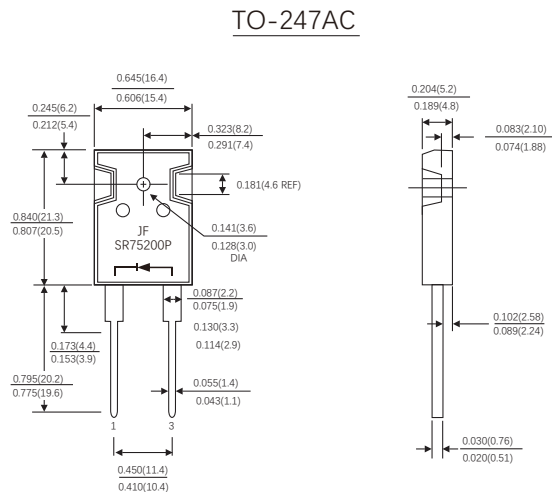


FEATURES

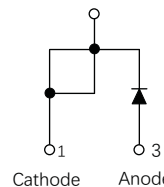
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low 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-247AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any



Base common cathode



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}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC blocking voltage	V_{DC}	200	V
Maximum average forward rectified current(see Fig.1)	$I_F(AV)$	75.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	600	A
Forward voltage at 75A(Note 1)	V_F	Typ:0.86 MAX:0.95	V
Maximum instantaneous reverse current at rated DC blocking voltage(Note 2)	$T_J=25^{\circ}C$	IR	20
	$T_J=125^{\circ}C$		10.0
Typical thermal resistance (Note 3)	$R_{\theta JC}$	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

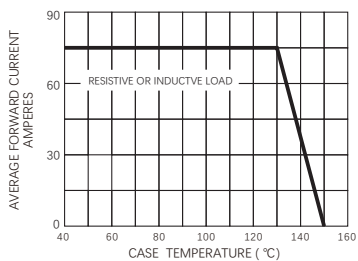


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

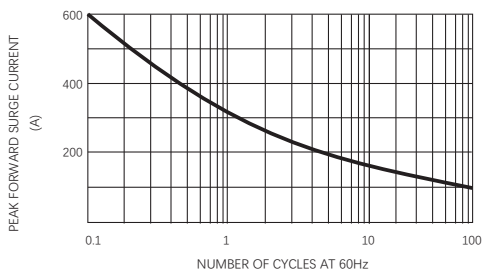


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

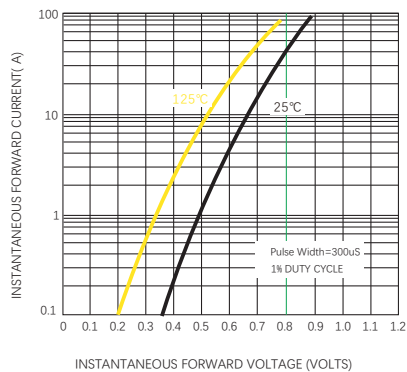
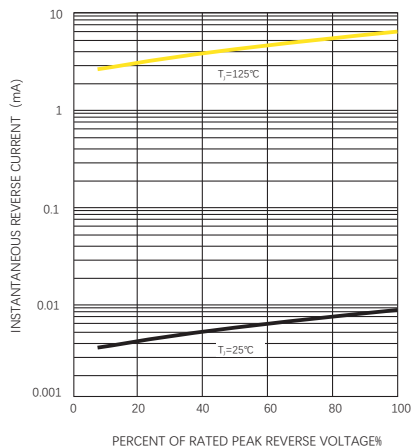


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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