

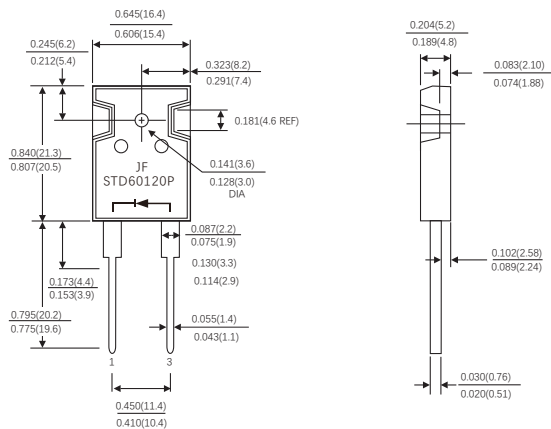
TO-247AC

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated Chip
- Low VF, Low power loss
- Flexible solution for reliable AC power rectification
- High surge capability
- Meets JESD 201 class 2 whisker test
- High temperature soldering guaranteed: 260°C/10s at terminals
- Component in accordance to RoHS 2015/863/EU



RoHS  
COMPLIANT



Pin1 CASE Pin3

Dimensions in inches and (millimeters)

### MECHANICAL DATA

- Case: TO-247AC 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 <sub>RRM</sub>	1200				V	
Maximum RMS voltage	V <sub>RMS</sub>	848				V	
Maximum DC blocking voltage	V <sub>DC</sub>	1200				V	
Maximum average forward rectified current(D=0.5 Rectangular wave)	I <sub>F(AV)</sub>	60.0				A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load, (JEDEC method Total device)	I <sub>FSM</sub>	840				A	
Forward voltage at 60A per leg (Note 1)	V <sub>F</sub>	TYP.	1.05	MAX.	1.30	V	
Maximum instantaneous reverse current at rated DC blocking Per Leg voltage(Note 1)	I <sub>R</sub>	T <sub>J</sub> =25°C	TYP.	-	MAX.	5	uA
		T <sub>J</sub> =125°C	TYP.	-	MAX.	250	uA
Typical thermal resistance (Note 2)	R <sub>θJC</sub>	0.35				°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.Thermal resistance from junction to case, Total device

FIG.1-FORWARD CURRENT DERATING CURVE

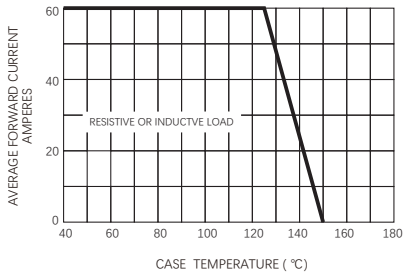


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

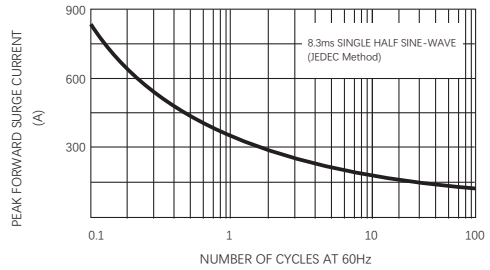


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

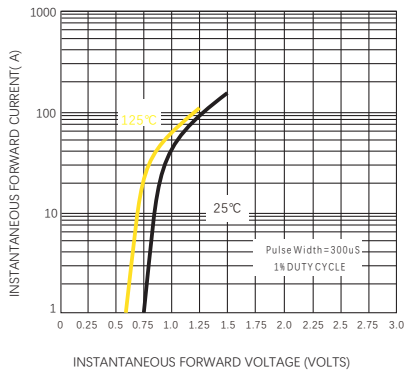
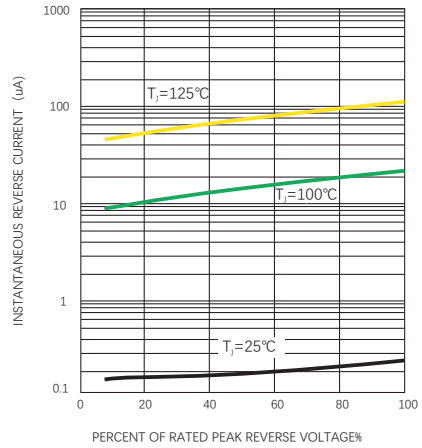


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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