

GLASS PASSIVATED GENERAL PURPOSE RECTIFIER

TO-247AC

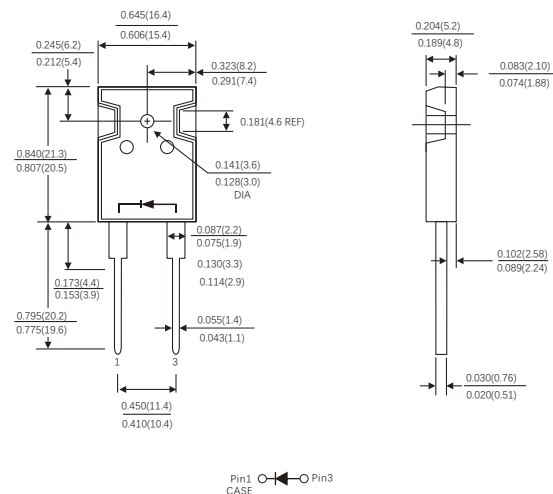
Features:

- 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



Mechanical Data:

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

RATINGS AND CHARACTERISTICS OF KSTD60120P

FIG.1-FORWARD CURRENT DERATING CURVE

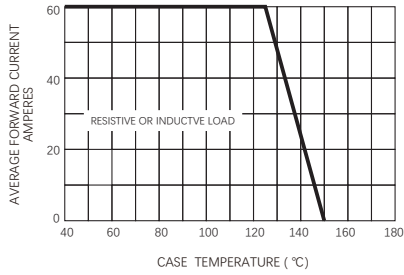


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

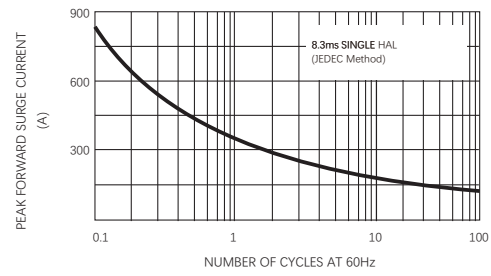


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

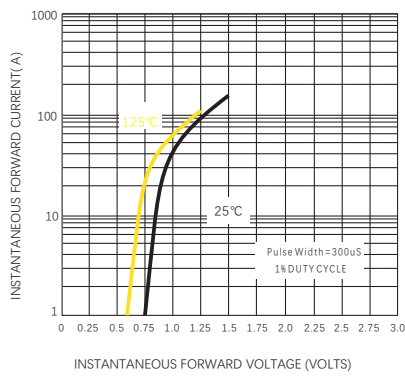


FIG.4-TYPICAL REVERSE CHARACTERISTICS

