

Low VF SCHOTTKY BARRIER RECTIFIER

Reverse Voltage:150Volts

Forward Current: 60.0Amperes

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
- AEC-Q101 qualified and PPAP capable



IATF16949 认证

MECHANICAL DATA

- Case: TO-247 molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked.
- Mounting Position: Any



AEC-Q101 Qualified

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}	150				V
Maximum RMS voltage	V_{RMS}	106				V
Maximum DC blocking voltage	V_{DC}	150				V
Maximum average forward rectified current(see Fig.1)	$I_F(AV)$	30.0 60.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	460				A
Forward voltage at 30A per leg (Note 1)	V_F	TYP.	0.83	MAX.	0.87	V
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	I_R	TYP.	-	MAX.	50	uA
		TYP.	-	MAX.	5.0	mA
Typical thermal resistance (Note 2)	$R_{\theta JC}$	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 KSR60150LPT-V

FIG.1- FORWARD CURRENT DERATING CURVE

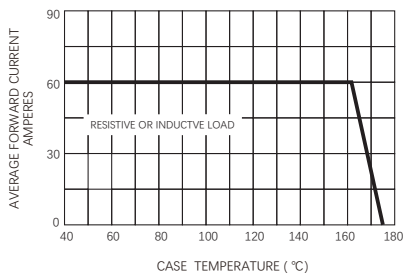


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

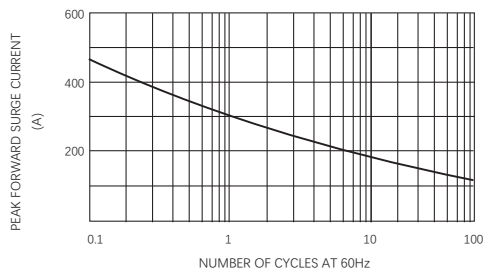


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

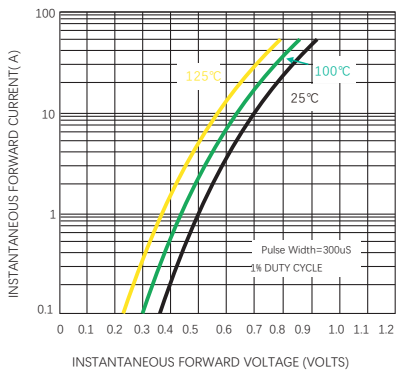
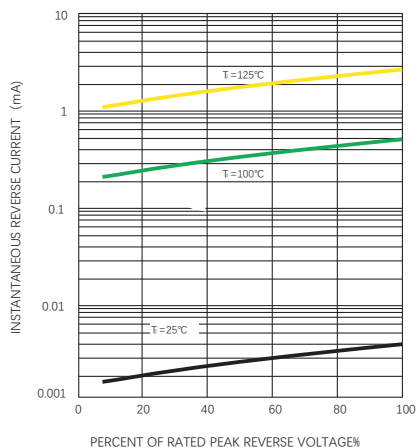


FIG.4- TYPICAL REVERSE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

Dimensions in inches and (millimeters)

TO-247AB

unit:mm

