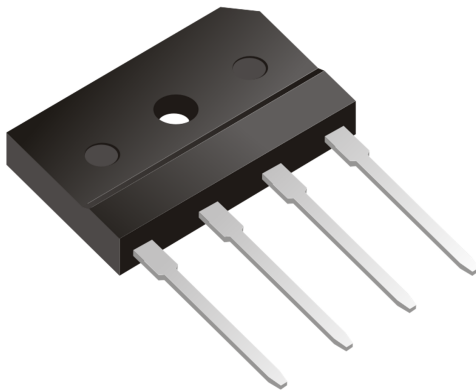


Reverse Voltage 600 V

Forward Current 15.0 A

Features

- Ideal for printed circuit boards
- High surge current capability
- Solder dip 260 °C max. 10s, per JESD 22-B106

Mechanical Data

- **Package:** KBJ
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	KBJ1506L
Device marking code				KBJ1506L
Repetitive Peak Reverse Voltage		VRRM	V	600
Average Rectified Output Current @60Hz sine wave, R-load,	With heatsink T _c =110℃	IO	A	15.0
	Without heatsink T _a =25℃			3.8
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _j =25℃		IFSM	A	240
Current squared time @1ms≤t≤8.3ms T _j =25℃,rating of per diode		I ² t	A ² S	240
Storage Temperature		T _{stg}	℃	-55 ~+150
Junction Temperature		T _j	℃	-55 ~+150
Dielectric strength @ terminals to case, AC 1 minute		Vdis	KV	2
Mounting torque @recommend torque: 5kg • cm		Tor	kg • cm	8

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ1506L
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =7.5A	0.95
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =VRRM	2

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

Thermal Characteristics (Unless otherwise specified)				
PARAMETER		SYMBOL	UNIT	KBJ1506L
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	°C/W	20.0
	Between junction and case, With heatsink	RθJ-C		1.5

■ **Characteristics Curves**

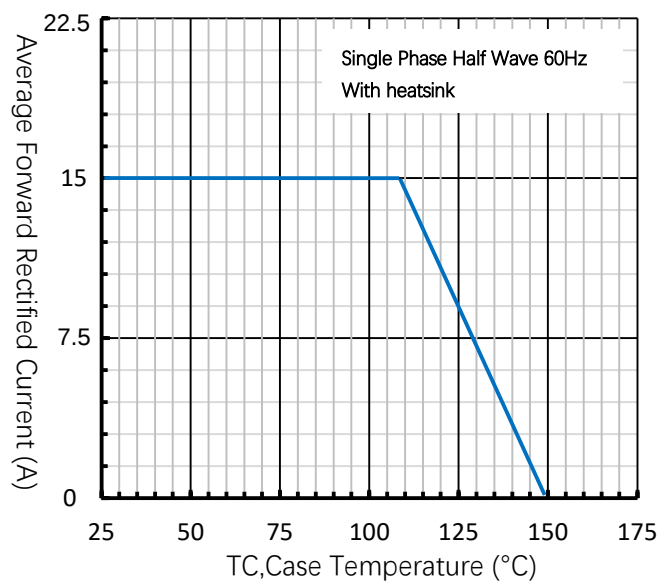


Fig.1 Forward Current Derating Curve

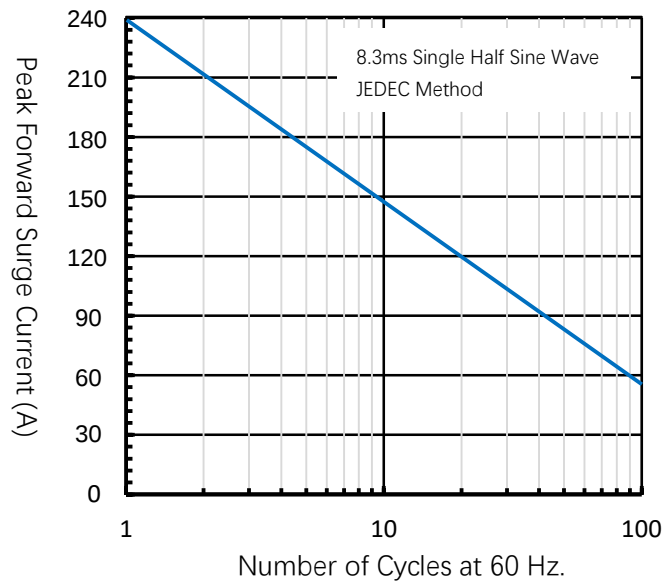


Fig.2 Forward Surge Current Capability

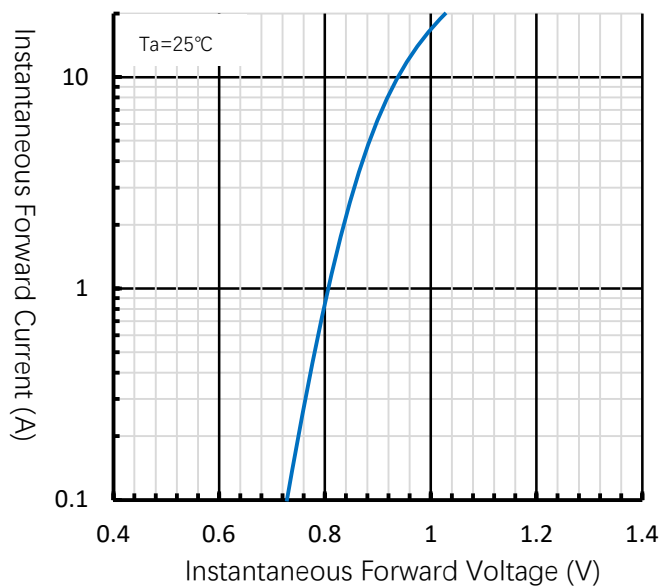


Fig. 3 Typical Forward Characteristic

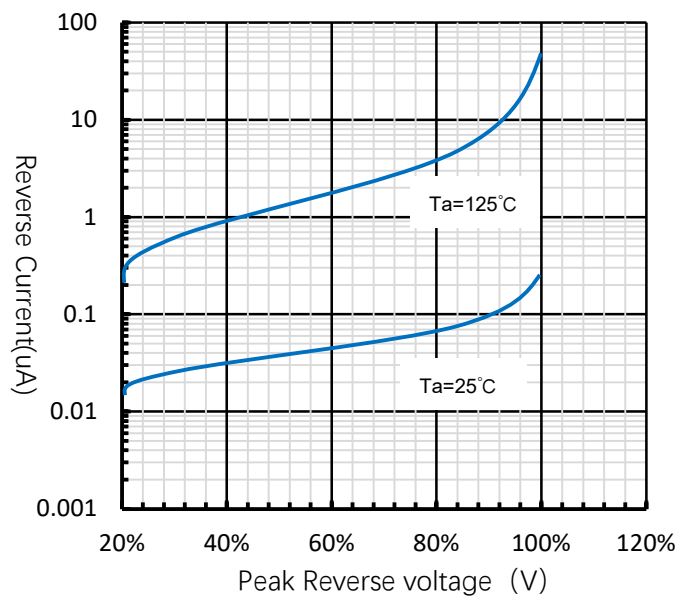


Fig. 4 Typical Reverse Characteristics

■ **Outline Dimensions** Dimensions in inches and (millimeters)

Package: KBJ

