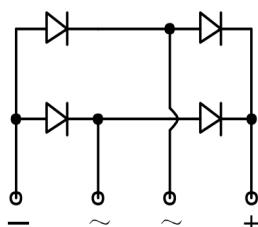
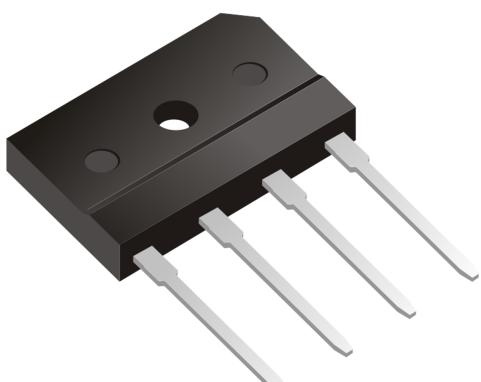


## **Single phase Silicon Bridge Rectifiers**

Reverse Voltage 1000 V

Forward Current 10.0 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 ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

#### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010
Maximum instantaneous forward voltage drop per diode	VF	V	FM=5.0A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	$\mu$ A	VRM=VRRM				2			

#### ■ Thermal Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

Thermal Characteristics (Ta=25°C unless otherwise specified)										
Parameter		Symbol	Unit	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	°C/W				20.0			
	Between junction and case, With heatsink	RθJ-C					2.0			

■ Characteristics Curves

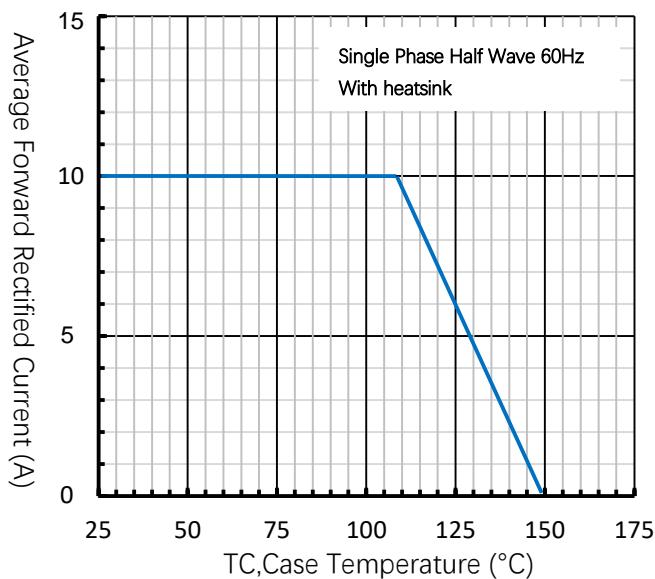


Fig.1 Forward Current Derating Curve

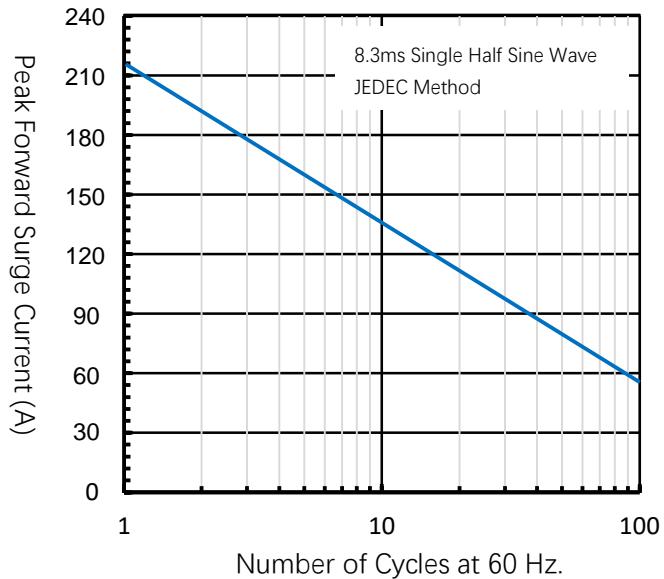


Fig.2 Forward Surge Current Capability

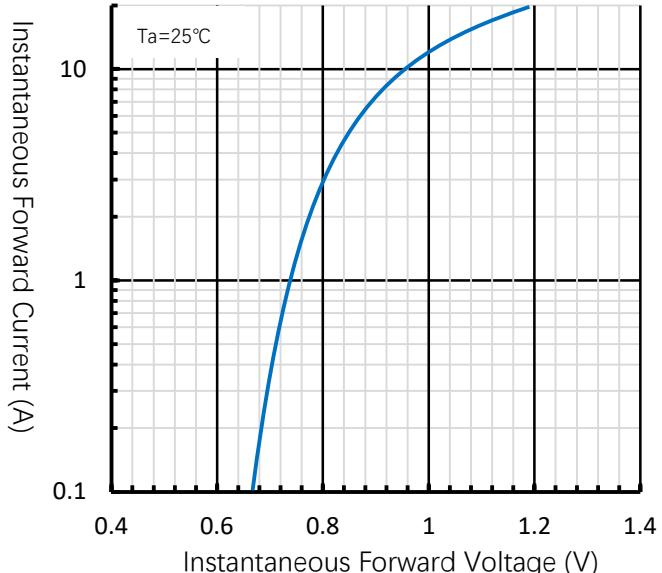


Fig.3 Typical Forward Characteristic

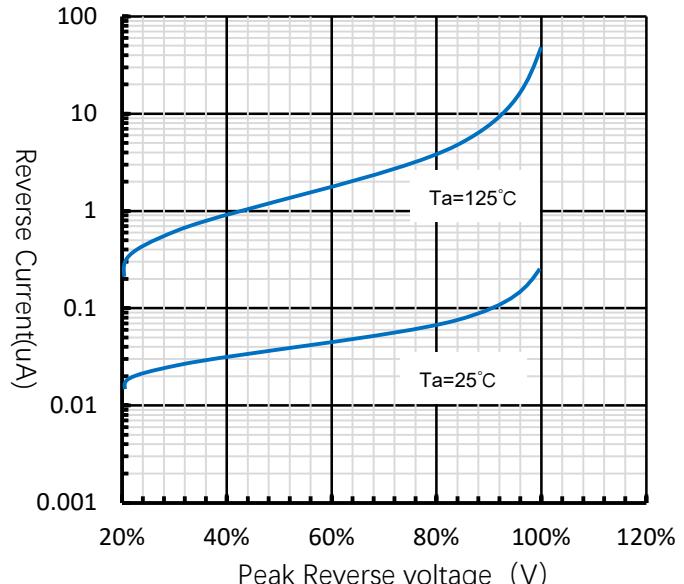


Fig.4 Typical Reverse Characteristics

■ Outline Dimensions Dimensions in inches and (millimeters)

**Package: KBJ**

