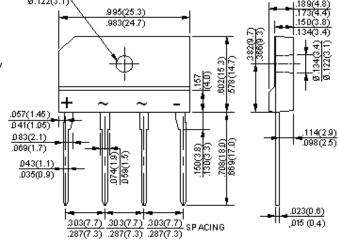


## KBJ10005 thru KBJ1010

# 10.0 A Single-Phase Silicon Bridge Rectifier Rectifier Reverse Voltage 50 to 1000V

#### **Features**

- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
  High temperature soldering guaranteed 260°C/5 seconds at 5 lbs (2.3kg) tension



#### **Mechanical Data**

Case: Reliable low cost construction utilizing

molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any

Dimensions in inches and (milimeters)

**Maximum Ratings & Thermal Characteristics**Rating at 25 °C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

CHARACTERISTICS	SYMBOL	KBJ 10005	KBJ 1001	KBJ 1002	KBJ 1004	KBJ 1006	KBJ 1008	KBJ 1010	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	30	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	Land	10.0							Α
Rectified Current @ Tc=100℃ (without heatsink)	I(AV)	2.5							A
Peak Forward Surage Current									
8.3ms Single Half Sine-Wave	IFSM 200							Α	
Super Imposed on Rated Load (JEDEC Method)									
Maximum Forward Voltage at 5.0A DC	VF	1.1							V
Maximum DC Reverse Current @ TJ=25℃	In.	10							uA
at Rated DC Blocking Voltage @ TJ=125℃	lr.			500					uA
Typical Thermal Resistance (Note2)	Rejc	2.3							°C/W
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$ C
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$ C

NOTES: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Device mounted on 300mm\*300mm\*1.6mm cu plate heatsink.

### Rating and Characteristic Curves (TA=25°C Unless otherwise noted) KBJ10005 thru KBJ1010

