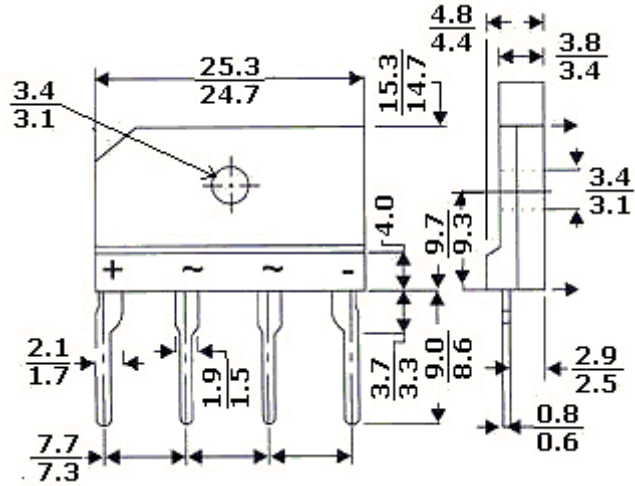
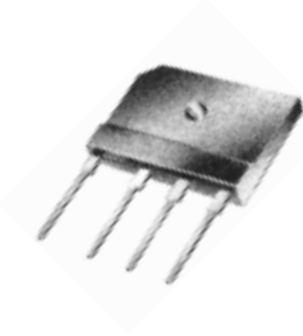


# 4.0 Amp Single Phase Silicon Bridge Rectifiers

## Description

## Mechanical Dimensions

**KBJ400~410**



**KBJ-4**

**DIMENSIONS IN MM**

### FEATURE

- Surge overload rating –150Amps peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwrites Laboratory Flammability Classification 94V-0
- Mounting Position: Any

### Max Ratings and Electrical Characteristic

Characteristics	Symbol	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	KBJ	UNIT
		400	401	402	404	406	408	410	
Max Recurrent peak reverse voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
Max RMS Voltage	V <sub>rms</sub>	35	70	140	240	420	560	700	V
Max DC Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Max Average Forward Volt T <sub>c</sub> =100C	I <sub>(av)</sub>	4.0							A
Peak forward Surge current 8.3ms	I <sub>FSM</sub>	150							A
Max Forward Voltage 3.0A	V <sub>f</sub>	1.0							V
Max DC Reverse T <sub>j</sub> =25C/125C	I <sub>R</sub>	5.0/500							uA
I <sup>2</sup> tRating for Fusing(t<8.3ms)	I <sup>2</sup> t	93							A <sup>2</sup> S
Typical Junction Capacitance	C <sub>j</sub>	45							Pf
Typical Thermal Resistance	R <sub>thjc</sub>	2.2							C/w
Operating & Storage Temp.	T <sub>j</sub> /T <sub>stg</sub>	-40~+125							C

Note: 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

2. Device Mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink

# 4.0 Amp Single Phase Silicon Bridge Rectifiers

## Description

## Mechanical Dimensions

Fig. 1 Derating Curve for Output Rectified Current

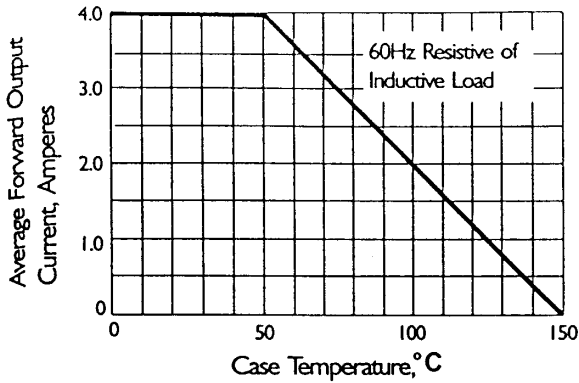


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

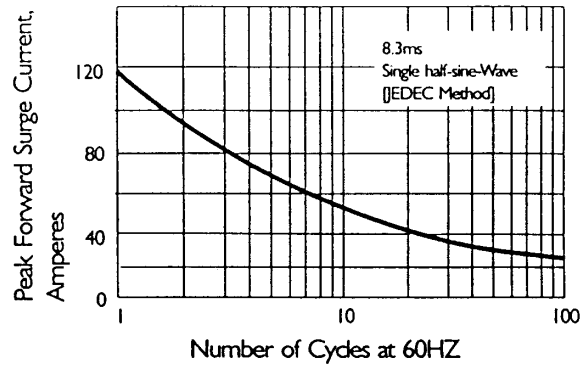


Fig. 3 Typical Instantaneous Forward Characteristics

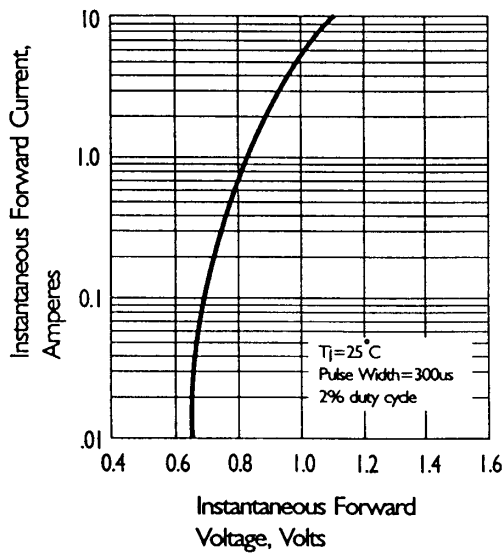


Fig. 4 Typical Reverse Characteristics at  $T_J = 25^\circ\text{C}$

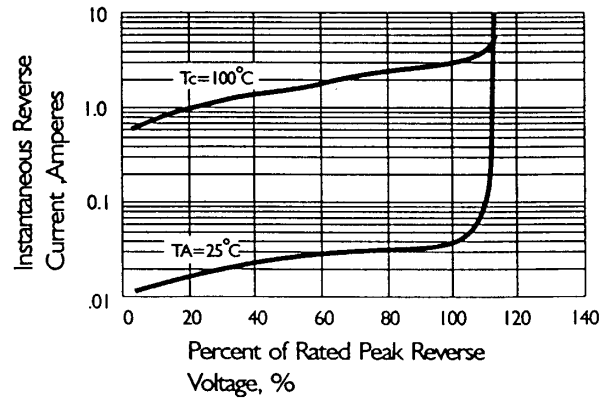


Fig. 5 Typical Junction Capacitance

