

KBJ401-KBJ407 SINGLE PHASE BRIDGE RECTIFIERS

VOLTAGE RANGE: 50-1000V CURRENT: 4.0 A

Features

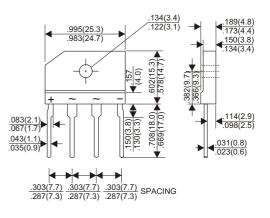
- Ideal for printed circuit board
- Low forward voltage
- Low leakage current

Mechanical Data

- Case: KBJ
- Mounting position: Any



KBJ



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	KBJ401	KBJ402	KBJ403	KBJ404	KBJ405	KBJ406	KBJ407	Unit
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 1) Rectified Current at Tc=100°C (Without heatsink)	4.0							А
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120							A
Maximum Forward Voltage Drop per Bridge Element at 4.0A D.C.	1.1							V
Maximum DC Reverse Current Ta=25°C	5.0							μA
at Rated DC Blocking Voltage Ta=100°C	500							μA
Typical Thermal Resistance RθJc (Note 2)	5.5						°C/W	
Typical Junction Capacitance (Note 3)	45						PF	
Operating Temperature Range, TJ	-55—+150						°C	
Storage Temperature Range, Tsтs	-55 — +150							°C

NOTES

1. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

2. Thermal Resistance from Junction to Case with device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

3. Measured at 1MHz and applied Reverse Voltage of 4.0V D.C.



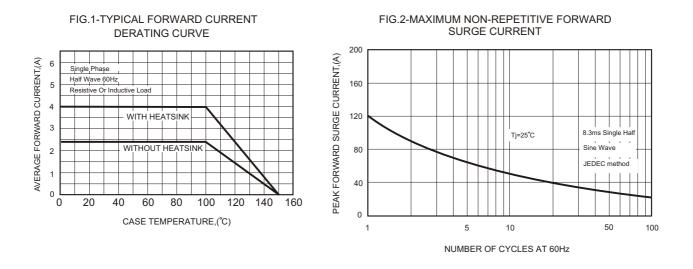


FIG.3-TYPICAL FORWARD

