# KBJ401 THRU KBJ407



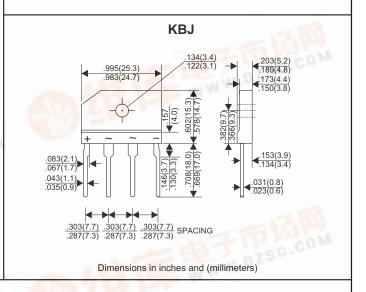
### SINGLE PHASE 4.0 AMP BRIDGE RECTIFIERS



#### **FEATURES**

- \* Ideal for printed circuit board
- \* Low forward voltage
- \* Low leakage current
- \* Mounting position: Any

# VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes



# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

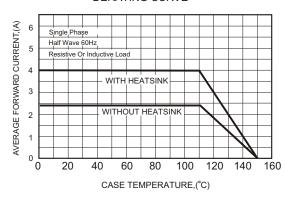
TYPE NUMBER	KBJ401	KBJ402	KBJ403	KBJ404	KBJ405	KBJ406	KBJ407	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 1)				4.0	THE	0	Ta.	777
Rectified Current at Tc=110°C (Without heatsink)				2.4				Α
Peak Forward Surge Current, 8.3 ms single half sine-wave		17/2						
superimposed on rated load (JEDEC method)	150						Α	
Maximum Forward Voltage Drop per Bridge Element at 2.0A D.C.	1.0							V
Maximum DC Reverse Current Ta=25°C	5.0						Α	
at Rated DC Blocking Voltage Ta=100°C	500							Α
Typical Thermal Resistance R Jc (Note 2)	5.5							°C/W
Typical Thermal Resistance R JL (Note 3)	6.0							°C/W
Ope <mark>rating T</mark> emperature Range, T₃	-55—+150							°C
Storage Temperature Range, Tsтс	-55 <b>—</b> +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. Thermal Resistance from Junction to Lead without Heatsink.

#### RATING AND CHARACTERISTIC CURVES (KBJ401 THRU KBJ407)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE



# FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

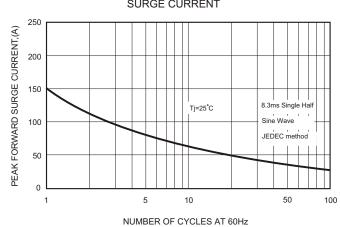
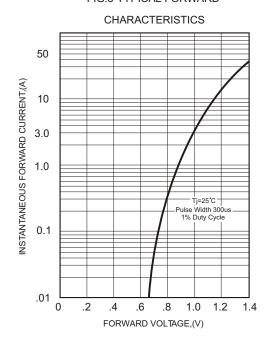


FIG.3-TYPICAL FORWARD



## FIG.4-TYPICAL REVERSE

