KBJ4005 THRU KBJ410

Glass Passivated Single-Phase Bridge Rectifier

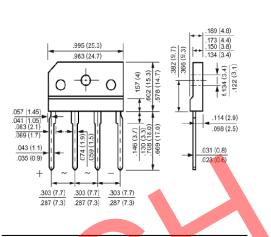
Reverse Voltage - 50 to 1000 V Forward Current - 4 A

Features

- · Glass passivated chip junction
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability

Mechanical Data

- · Case: Molded plastic, KBJ
- Mounting Position: Any



KBJ

Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	Units
i arameter	Symbols	KDJ400J	KDJ401	KDJ402	KDJ404	KDJ400	KDJ400	KDJ410	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average Rectified Rectified Current at T _c = 115 °C	I _{F(AV)}	4							А
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	120							A
Maximum Forward Voltage at 2 A	V _F	1					V		
Maximum Reverse Current $T_A = 25 \text{ °C}$ at Rated DC Blocking Voltage $T_A = 125 \text{ °C}$	I _R	5 500						μΑ	
Typical Junction Capacitance ¹⁾	Cj	40							pF
Typical Thermal Resistance ²⁾	R _{θJC}	5.5							°C/W
Operating Junction Temperature Range	Tj	- 55 to + 150					°C		
Storage Temperature Range	T _{stg}	- 55 to + 150						°C	

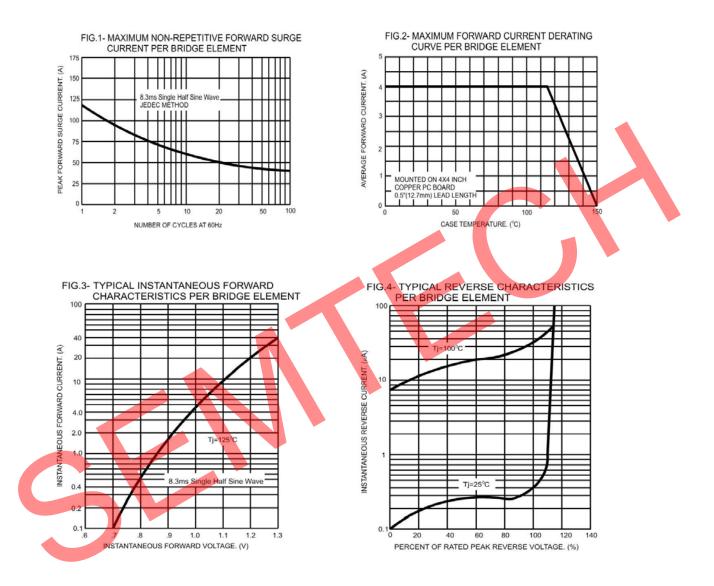
 $^{\rm 1)}$ Measured at 1 MHz and applied reverse voltage of 4 V DC

²⁾ Thermal Resistance from Junction to Case with Device Mounted on 75 mm X 75 mm X 1.6 mmCu Plate Heatsink.

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