## **KBJ4005 THRU KBJ410-HAF**

# **Glass Passivated Single-Phase Bridge Rectifier**

Reverse Voltage - 50 to 1000 V

Forward Current - 4 A

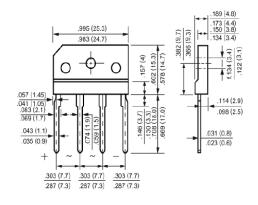
## KBJ

#### **Features**

- · Glass passivated chip junction
- · Low forward voltage drop
- · Low reverse leakage current
- · High surge current capability
- Halogen and Antimony Free(HAF), RoHS compliant

### **Mechanical Data**

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



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%

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Parameter	Symbols	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	KBJ410	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	٧
Average Rectified Rectified Current at T <sub>C</sub> = 115 °C	I <sub>F(AV)</sub>	4							Α
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	120							Α
Maximum Forward Voltage at 2 A	V <sub>F</sub>	1						V	
$ \begin{array}{ll} \text{Maximum Reverse Current} & T_{\text{A}} = 25  ^{\circ}\text{C} \\ \text{at Rated DC Blocking Voltage} & T_{\text{A}} = 125  ^{\circ}\text{C} \\ \end{array} $	I <sub>R</sub>	5 500							μA
Typical Junction Capacitance 1)	C <sub>j</sub>	40							pF
Typical Thermal Resistance 2)	$R_{\theta JC}$	5.5							°C/W
Operating Junction Temperature Range	Tj	- 55 to + 150							°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150							°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V DC









**TOP DYNAMIC** 

<sup>&</sup>lt;sup>2)</sup> Thermal Resistance from Junction to Case with Device Mounted on 75 mm X 75 mm X 1.6 mmCu Plate Heatsink.

