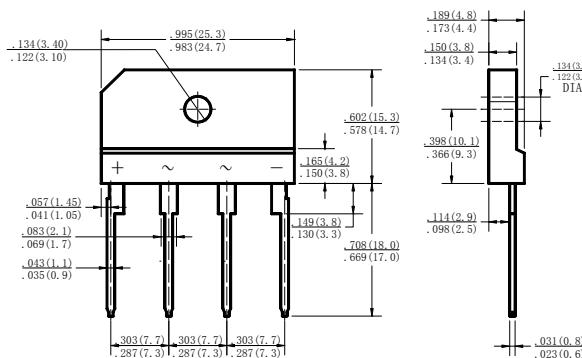


# KBJ4005 THRU KBJ410 AND GBJ4005 THRU GBJ410

## Bridge Rectifier

Voltage Range - 50 to 1000 Volts Current - 4.0 Ampere

4KBJ



Dimensions in inches and (millimeters)

### FEATURES

- Glass passivated chip
- High surge forward current capability

### MECHANICAL DATA

**Case:** Molded plastic body

**Lead:** Solder plated

**Polarity:** As marked

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

#### Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBJ4 /GBJ4						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
Average Rectified Output Current	$I_O$	A	60Hz sine wave, R-load	With heatsink $T_c = 108^\circ\text{C}$						4
				Without heatsink $T_a = 25^\circ\text{C}$						2.3
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$							120
Current Squared Time	$I^2t$	$\text{A}^2\text{S}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode							60
Storage Temperature	$T_{stg}$	$^\circ\text{C}$								-55 ~+150
Junction Temperature	$T_j$	$^\circ\text{C}$								-55 ~+150
Dielectric Strength	$V_{dis}$	KV	Terminals to case, AC 1 minute							2
Mounting Torque	Tor	$\text{kg}\cdot\text{cm}$	Recommend torque: 5kg • cm							8

#### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=2\text{A}$ , Pulse measurement, Rating of per diode	1.05
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient, Without heatsink	30
	$R_{\theta J-C}$		Between junction and case, With heatsink	5.5

## RATINGS AND CHARACTERISTIC CURVES KBJ4005 THRU KBJ410 AND GBJ4005 THRU GBJ410

