

### Bridge Rectifier

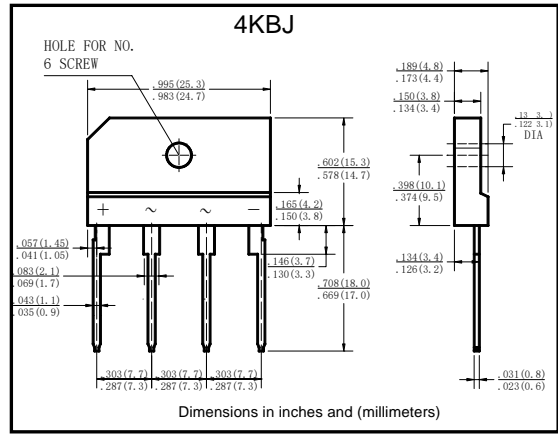
#### ■ Features

- $I_o$  6A
- $V_{RRM}$  50V~1000V
- Glass passivated chip
- High surge forward current capability

#### ■ Applications

- General purpose 1 phase Bridge rectifier applications

#### ■ Outline Dimensions and Mark



#### ■ Limiting Values(Absolute Maximum Rating)

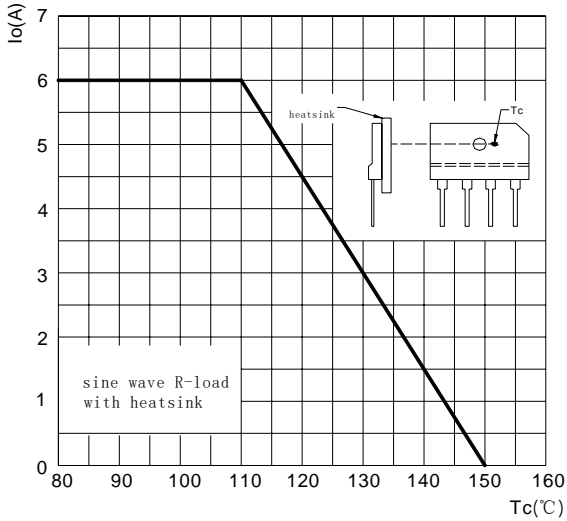
Item	Symbol	Unit	Conditions	KBJ6						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
Average Rectified Output Current	$I_o$	A	60Hz sine wave, R-load	With heatsink $T_c = 110^\circ\text{C}$						
				Without heatsink $T_a = 25^\circ\text{C}$						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_j = 25^\circ\text{C}$	135						
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	75						
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: $5\text{kg} \cdot \text{cm}$	8						

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

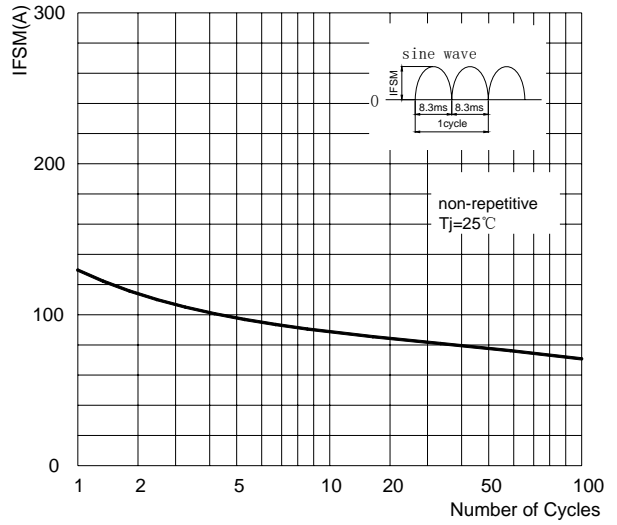
Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM} = 3\text{A}$ , Pulse measurement, Rating of per diode	1.05
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM} = V_{RRM}$ , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta \text{ J-A}}$	$^\circ\text{C/W}$	Between junction and ambient, Without heatsink	26
	$R_{\theta \text{ J-C}}$		Between junction and case, With heatsink	3.4

## Characteristics(Typical)

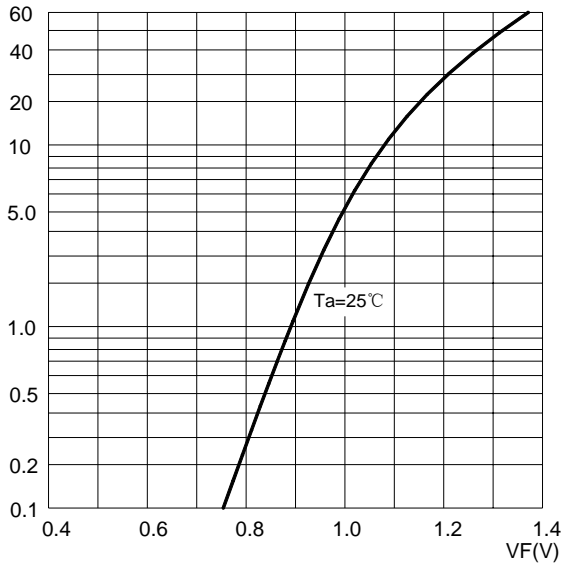
**FIG1:Io-Tc Curve**



**FIG2:Surge Forward Current Capadility**



**FIG3: Forward Voltage**



**FIG4:Typical Reverse Characteristics**

