

4GBJ Plastic-Encapsulate Bridge Rectifier

Features

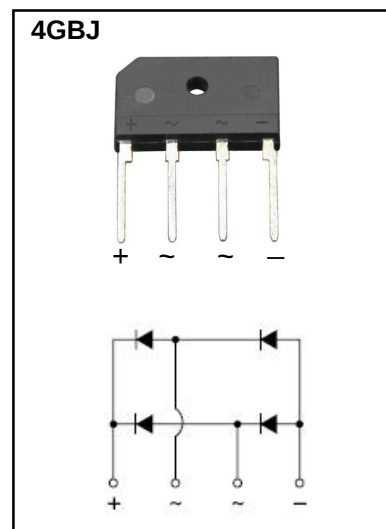
- I_O 6.0A
- V_{RRM} 50V-1000V
- High surge current capability

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- KBJ6XX
- XX : From 005 To 10



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	KBJ 6						
				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 $T_c = 100^\circ\text{C}$						
				Without heatsink $T_c = 100^\circ\text{C}$						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j = 25^\circ\text{C}$	175						
Current Squared Time	I^2t	A^2S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j = 25^\circ\text{C}$, Rating of per diode	127						
Storage Temperature	T_{stg}	$^\circ\text{C}$		-55 ~ +150						
Junction Temperature	T_j	$^\circ\text{C}$		-55 ~ +150						

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		1.0
Peak Reverse Current	I_{RRM1}	μA	$V_{RM} = V_{RRM}$	$T_a = 25^\circ\text{C}$	10
	I_{RRM2}			$T_a = 125^\circ\text{C}$	500
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient, Without heatsink		26
	$R_{\theta J-C}$		Between junction and case, With heatsink		3.4

Typical Characteristics

Fig. 1 - Forward Current Derating Curve

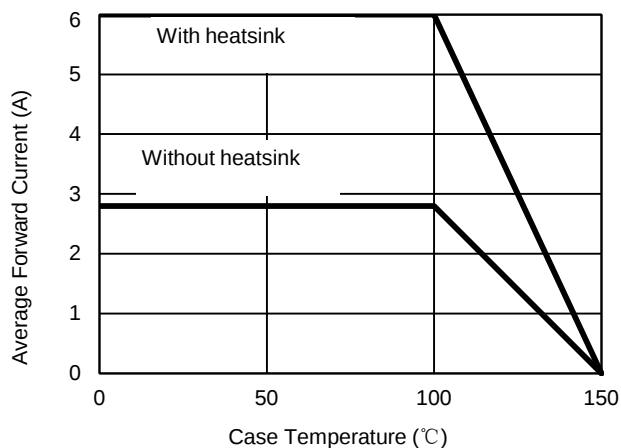


Fig. 2 - Maximum Non-Repetitive Surge Current

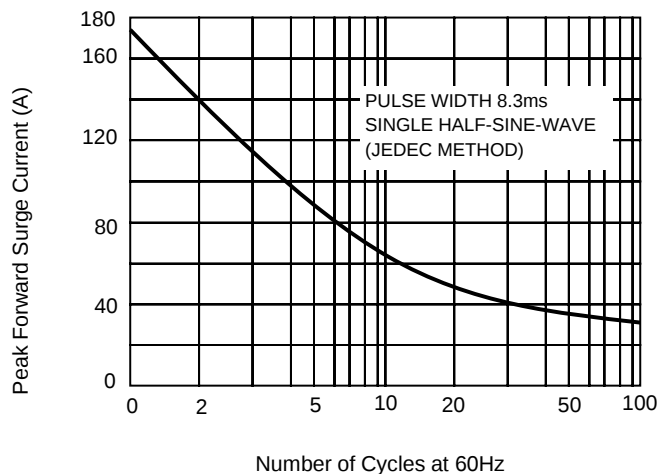


Fig. 3 - Typical Reverse Characteristics

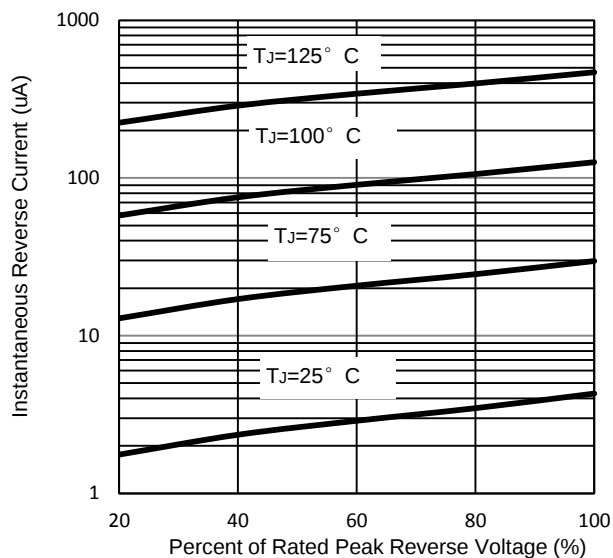


Fig. 4 - Typical Forward Characteristics

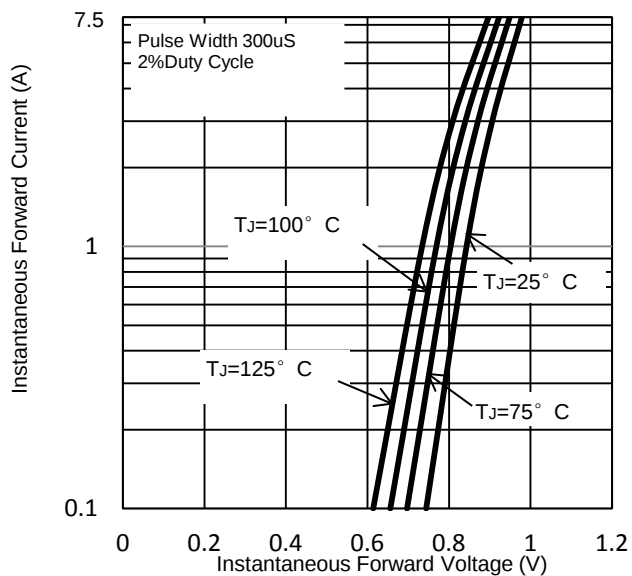
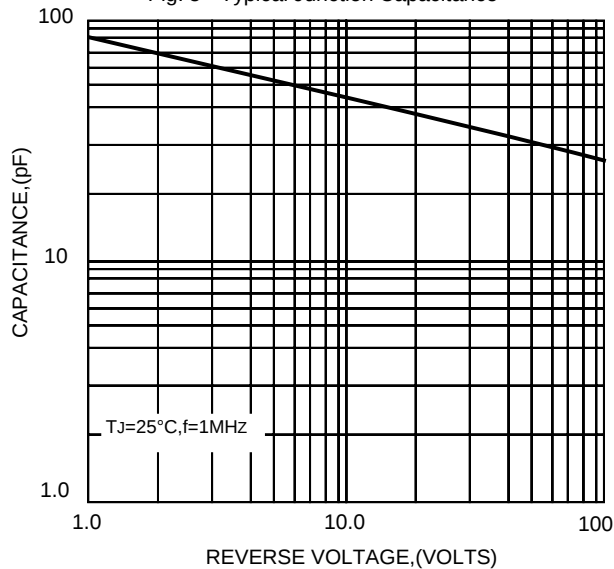
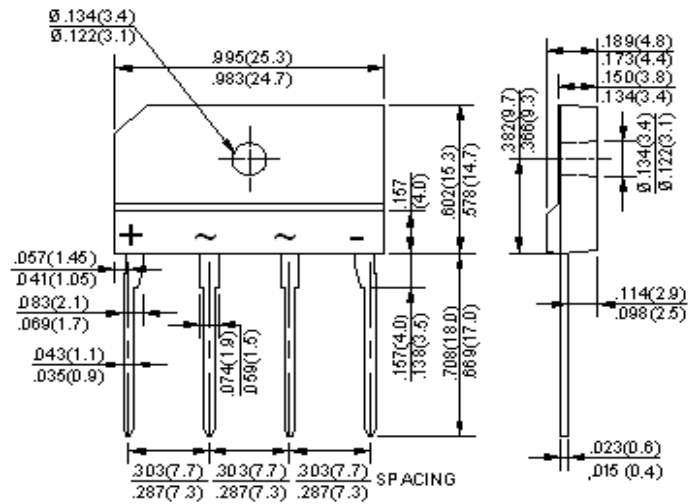


Fig. 5 - Typical Junction Capacitance





Dimensions in inches and (millimeters)

NOTICE

JSMD reserve the right to make modifications,enhancements, improvements, corrections or other changes without further notice to any product herein .JSMD does not assume any liability arising out of the application or use of any product described herein.