



JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

6GBJ Plastic-Encapsulate Bridge Rectifier

GBJ35005 THRU GBJ3510

General Purpose Bridge Rectifier

Features

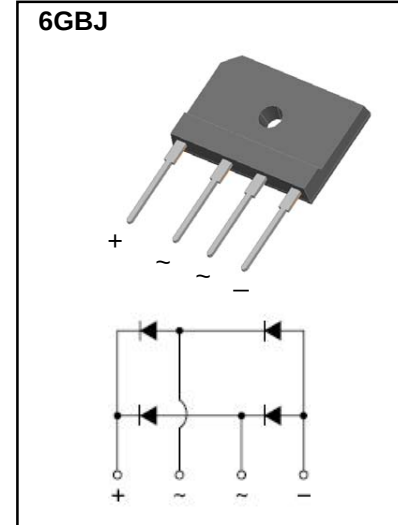
- I_O 35A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip

Applications

- General purpose 1 phase Bridge rectifier applications

Marking

- GBJ35XX
XX : From 005 To 10



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	GBJ35						
				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℃	35						
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz half-sine wave, 1 cycle, T _j =25℃	400						
Current Squared Time	I ² t	A ² S	1ms≤t<8.3ms T _j =25℃, Rating of per diode	660						
Storage Temperature	T _{stg}	℃		-55 ~+150						
Junction Temperature	T _j	℃		-55 ~+150						
Dielectric Strength	V _{dis}	KV	Terminals to case, AC 1 minute	2.5						
Mounting Torque	Tor	kg • 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	$I_{FM}=17.5\text{A}$, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	5
Thermal Resistance	$R_{\theta J-A}$	$^{\circ}\text{C}/\text{W}$	Between junction and ambient, Without heatsink	22
	$R_{\theta J-C}$		Between junction and case, With heatsink	0.6

Typical Characteristics

FIG.1-MAXIMUM FORWARD SURGE CURRENT

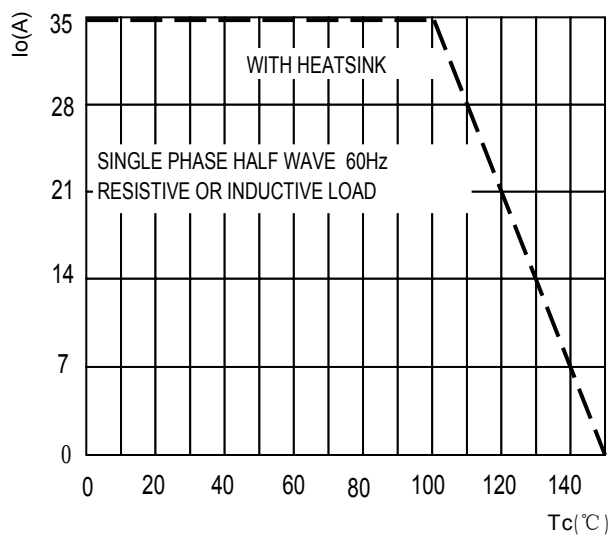


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

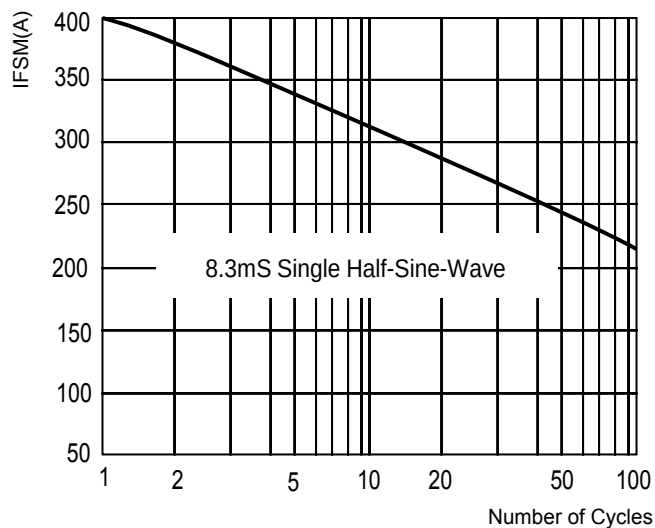


FIG.3-TYPICAL FORWARD CHARACTERISTICS

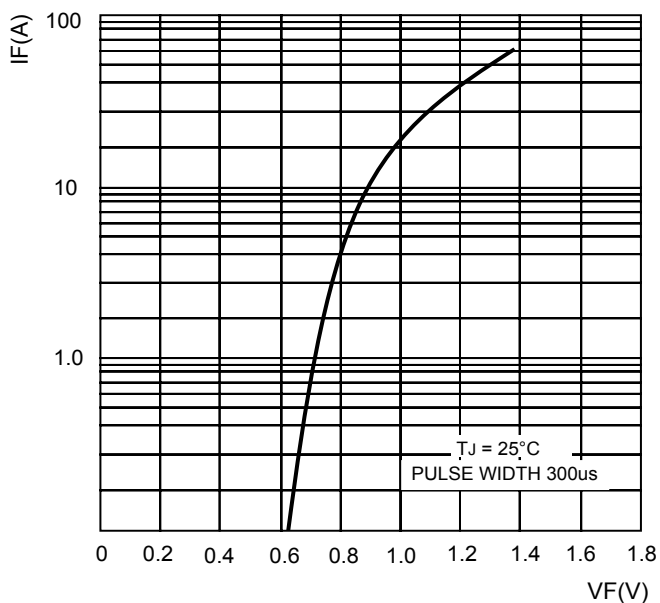


FIG.4-TYPICAL REVERSE CHARACTERISTICS

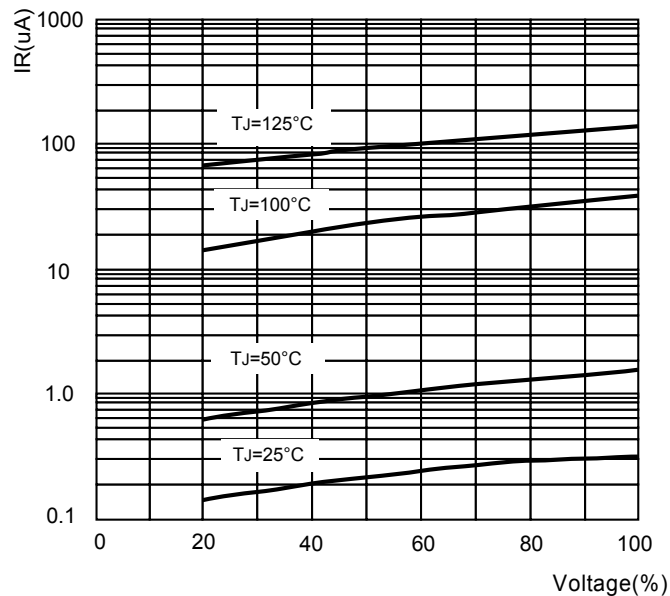
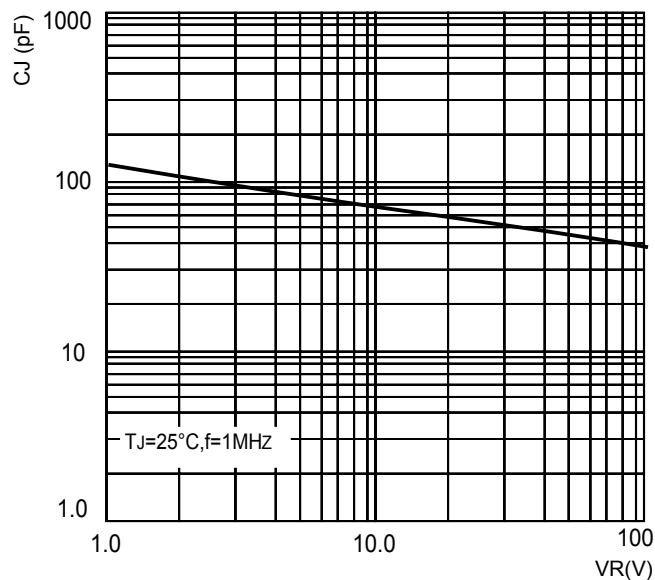
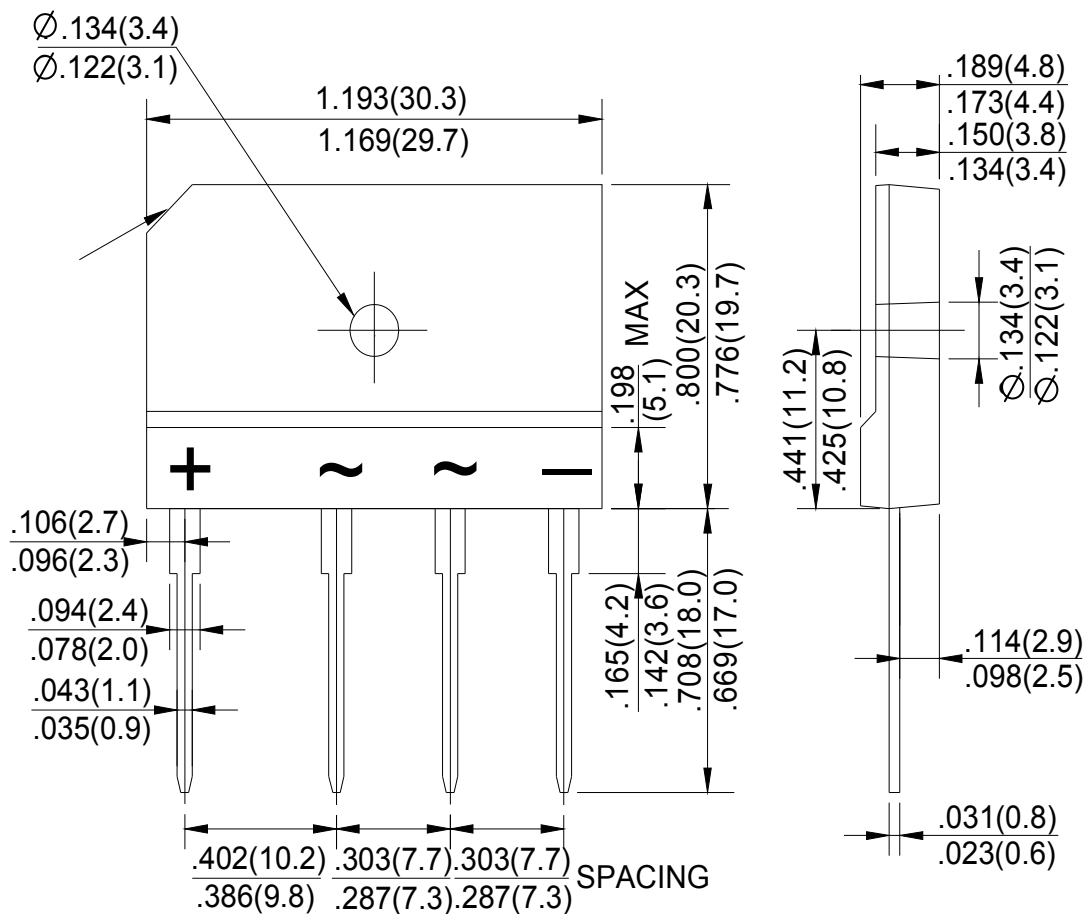


FIG.5-TYPICAL JUNCTION CAPACITANCE





Dimensions in inches and (millimeters)

NOTICE

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