



**6GBJ Plastic-Encapsulate Bridge Rectifier**

**GBJ25005 THRU GBJ2510**

General Purpose Bridge Rectifier

**Features**

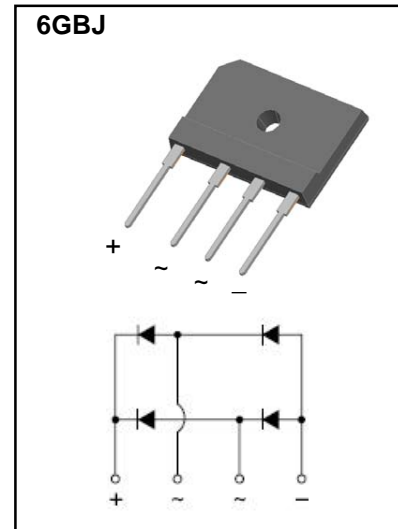
- I<sub>o</sub> 25A
- V<sub>RRM</sub> 50V-1000V
- High surge current capability
- Glass passivated chip

**Applications**

- General purpose 1 phase Bridge rectifier applications

**Marking**

- GBJ25XX
- XX : From 005 To 10



**Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	GBJ25						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		50	100	200	400	600	800	1000
Average Rectified Output Current	I <sub>o</sub>	A	60Hz sine wave, R-load	With heatsink T <sub>c</sub> =100°C						
				Without heatsink T <sub>a</sub> =25°C						
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	A	60Hz sine wave, 1 cycle, T <sub>j</sub> =25°C	350						
Current Squared Time	I <sup>2</sup> t	A <sup>2</sup> S	1ms≤t<8.3ms T <sub>j</sub> =25°C, Rating of per diode	508						
Storage Temperature	T <sub>stg</sub>	°C		-55 ~+150						
Junction Temperature	T <sub>j</sub>	°C		-55 ~+150						
Dielectric Strength	V <sub>dis</sub>	KV	Terminals to case, AC 1 minute	2.5						
Mounting Torque	Tor	kg • cm	Recommend torque: 5kg • cm	8						

**Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)**

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V <sub>FM</sub>	V	I <sub>FM</sub> =12.5A, Pulse measurement, Rating of per diode	1.0
Peak Reverse Current	I <sub>RRM</sub>	μ A	V <sub>RM</sub> =V <sub>RRM</sub> , Pulse measurement, Rating of per diode	10
Thermal Resistance	R <sub>θ J-A</sub>	°C/W	Between junction and ambient, Without heatsink	22
	R <sub>θ J-C</sub>		Between junction and case, With heatsink	0.6

# Typical Characteristics

FIG.1-MAXIMUM FORWARD SURGE CURRENT

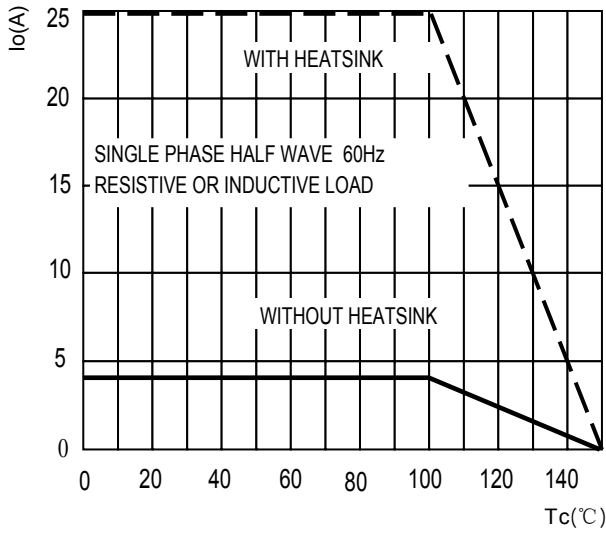


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

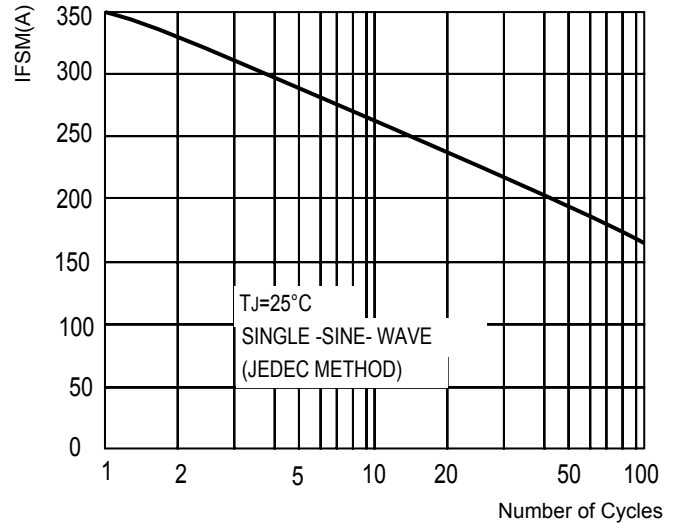


FIG.3-TYPICAL FORWARD CHARACTERISTICS

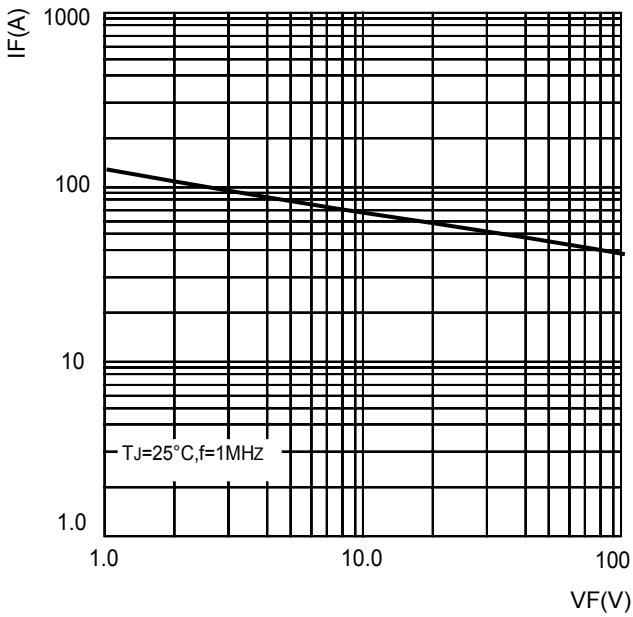


FIG.4-TYPICAL REVERSE CHARACTERISTICS

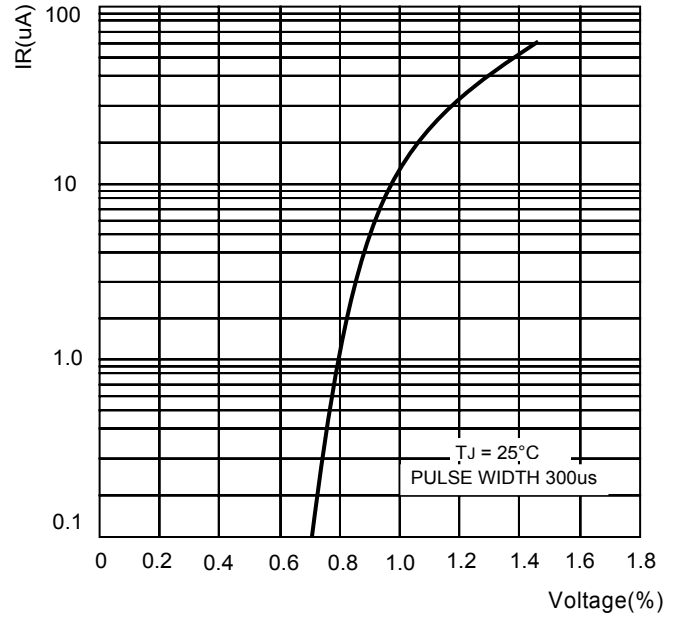
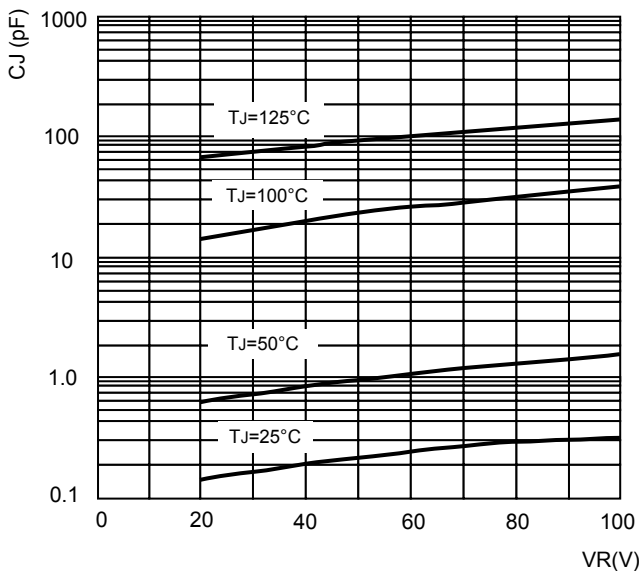
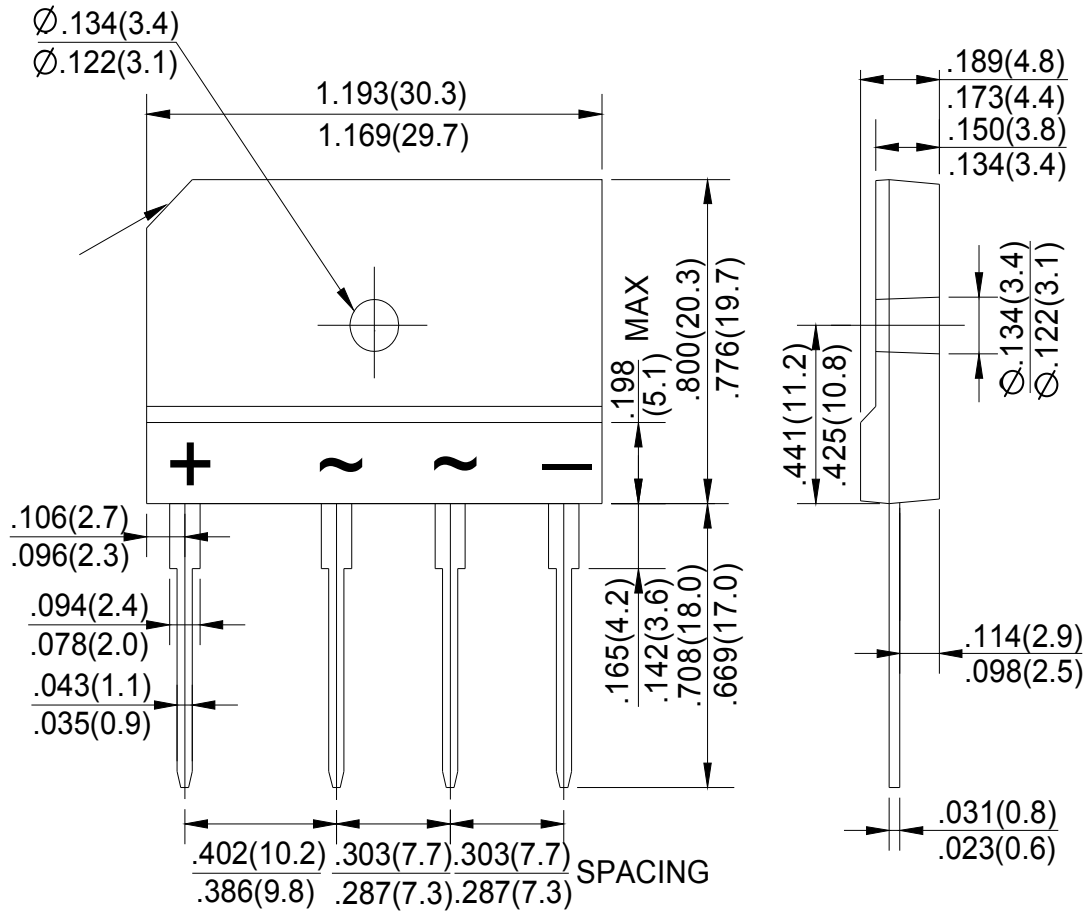


FIG.5-TYPICAL JUNCTION CAPACITANCE



## 6GBJ Package Outline Dimensions



Dimensions in inches and (millimeters)

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