

4A Glass Passivated Bridge Rectifier

Features

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit boards
- High temperature soldering guaranteed: 260°C/10 seconds
0.375" (9.5mm) lead length at 5lbs.(2.3kg) tension
- This series is UL recognized under component index, File number E194718
- RoHS compliant



GBL



Mechanical Data

Case:	GBL molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Plated leads solderable per MIL-STD-750, Method 2026
Polarity:	As marked on case
Weight:	0.071 ounce, 2.0 gram

Maximum Ratings And Electrical Characteristics ($T_{amb}=25^{\circ}\text{C}$)

Symbols	Parameter	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	Unit	Conditions
V_{RRM}	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
I_{F(AV)}	Maximum Average Forward Rectified Current	4.0							A	T _c =50° C Note 1
I_{FSM}	Peak Forward Surge Current	150							A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)
I²_t	Rating for Fusing (t<8.3ms)	93							A ² S	

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GBL005 - GBL10

Symbols	Parameter	GBL005	GBL01	GBL02	GBL04	GBL06	GBL08	GBL10	Unit	Conditions
V_F	Maximum Instantaneous Forward Voltage Drop per leg	1.0							V	IF=4.0A
I_R	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5.0							μA	TA=25°C
		500								TA=125°C
C_J	Typical Junction Capacitance per leg	95				40			pF	VR=4V, f=1MHZ
RθJA	Typical Thermal Resistance per leg	22							°C/W	Note 1
RθJC		3.5								Note 2
TJ,TSTG	Operating Junction and Storage Temperature Range	-55 to +150							°C	

Note: 1. Unit mounted on 3.0 x 3.0 x 0.11" thick (7.5 x 7.5 x 0.3cm) aluminum plate.
2. Unit mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5 x 0.5" (12 x 12mm) copper pads.

Rating and Characteristic Curves

Fig.1- Derating Curve Output Rectified Current

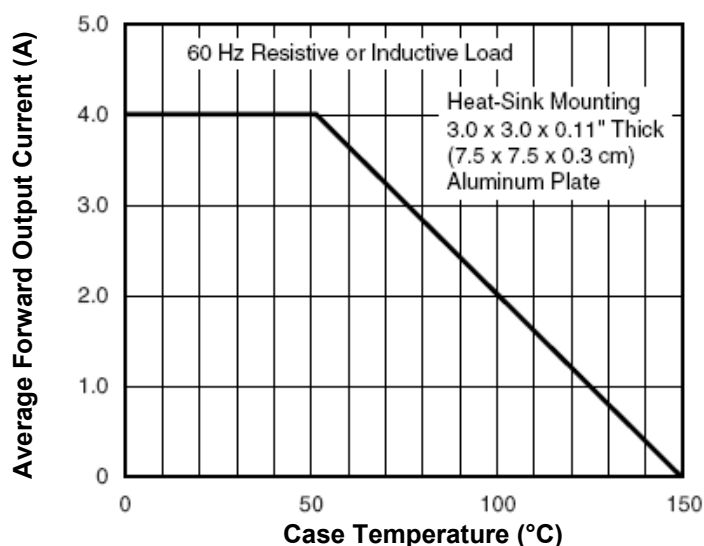
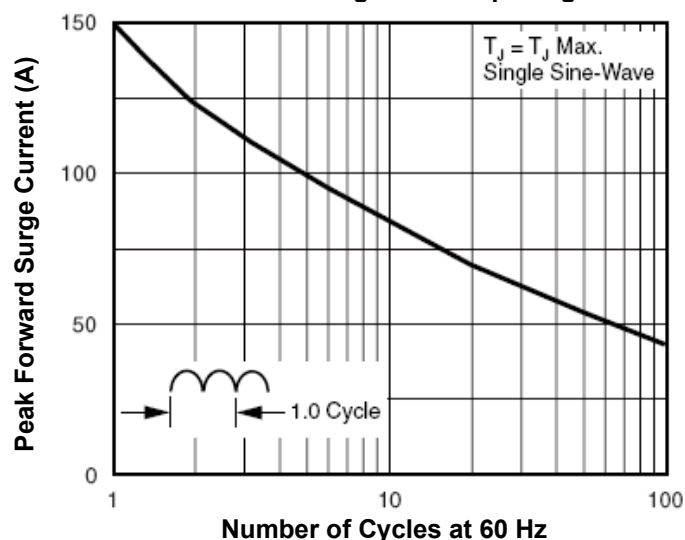


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



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Fig.3-Typical Forward Characteristics
per leg

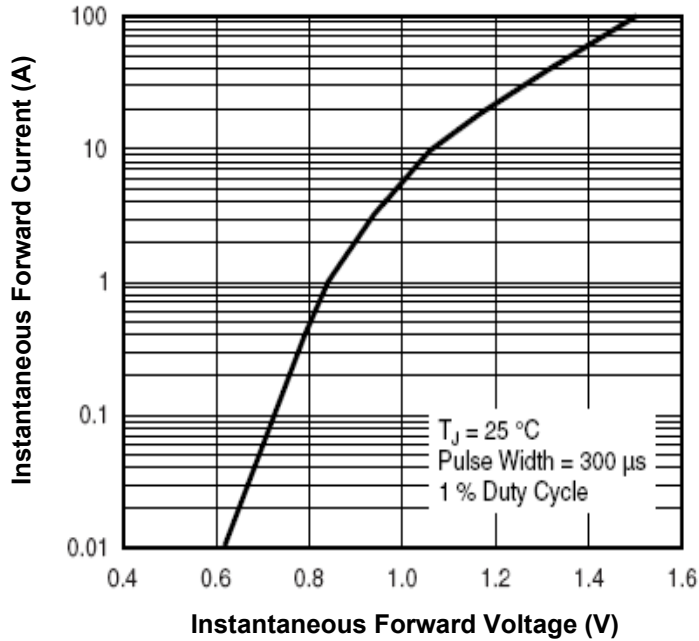


Fig.4-Typical Reverse Leakage Characteristics
per leg

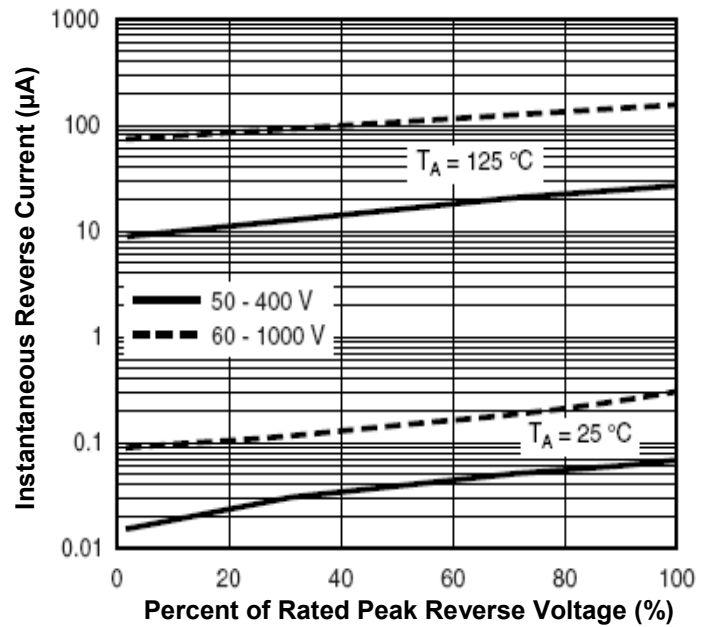
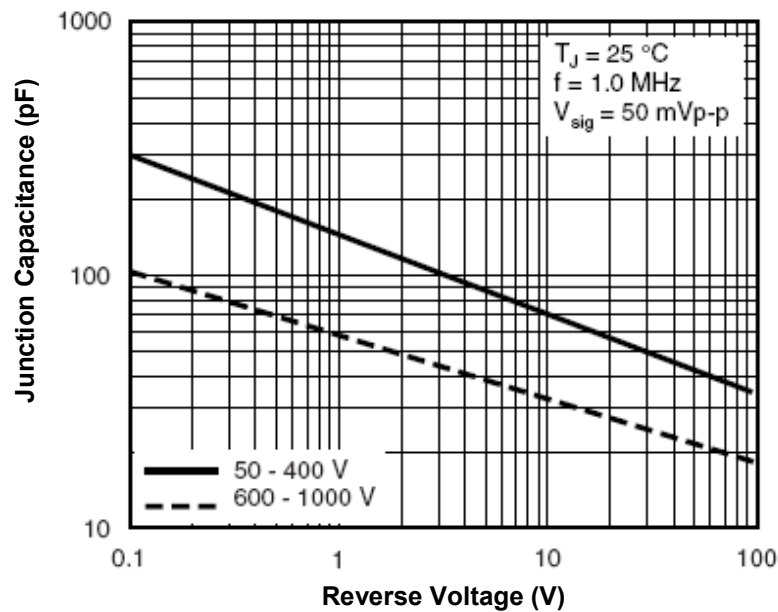


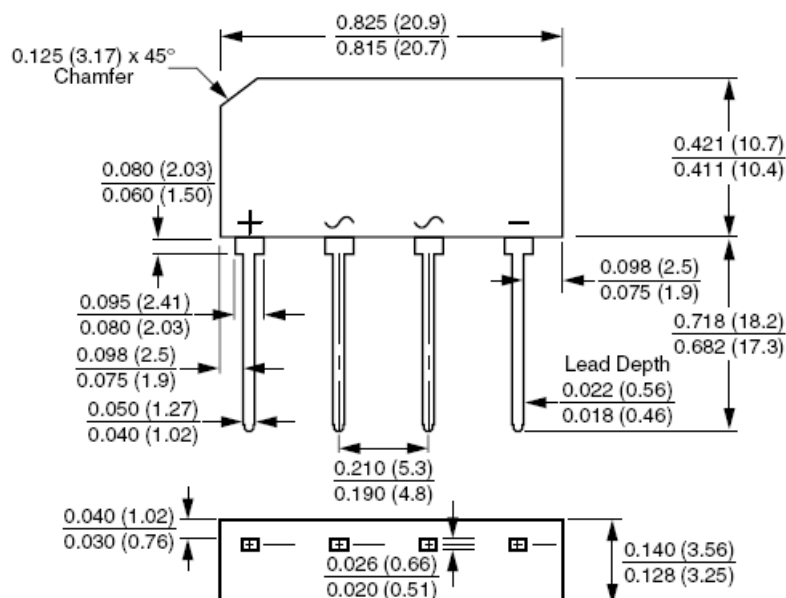
Fig.5-Typical Junction Capacitance
per leg



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Dimensions in inch (mm)



How to contact us

Case Type GBL

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