

GBL4005 Thru GBL410

Glass Passivated Single-Phase Bridge Rectifier

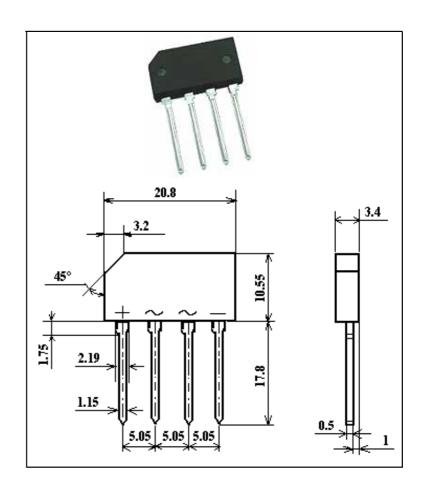
FEATURES

- . Plastic Package has Underwriters Laboratory

 Flammability Classification 94V-0
- . This series is UL listed under the Recognized Component index,file number E231047
- . Single-in-line package
- . High current capality with small package
- . Superior thermal conductivity
- . High temperature soldering guaranted:

260 /10 seconds

. High I_{FSM}



Maximum Ratings & Thermal Characteristics Ratings at 25 ambient temperature unless otherwise specified.

Parameter Symbol	Symbol	GBL4005	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410	Unit
Maximum repetitive voltage	V_{RM}	50	100	200	400	600	800	1000	V
Maximum DC reverse current TA=25 at rated DC blocking voltage TA=125	I_R	5 500							μΑ
Average rectified forward current 60Hz Sine wave Resistance load with heat sink Tc=50	Io	4							A
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load	I_{FSM}	150							A
Dielectric strength Terminals to case, AC 1 minute Current 1mA	Vdia	2.5							KV
Maximum instantaneous forward voltage at 4A	V_{F}	1.1							V
Operating junction temperature	T_{J}	150							
Storage temperature	Tstg	-55~150							

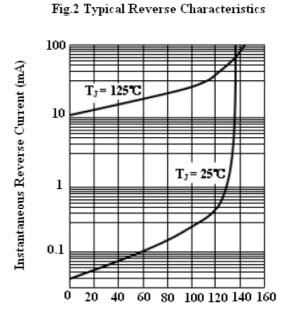


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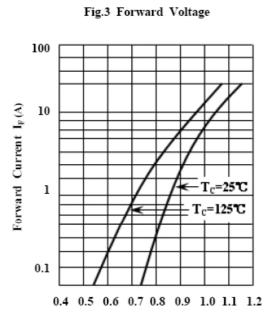
Fig.1 Derating Curve

7
6
5
4
3
2
0 20 40 60 80 100 120 140 160

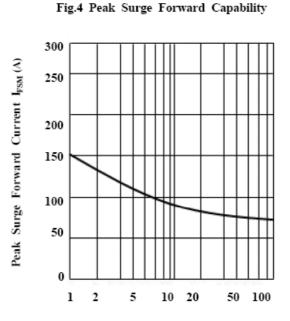
Case Temperature Tc (C)



Percent Of Rated Peak Reverse Voltage %







Number Of Cycles (cycles)