

## GBL4005 Thru GBL410

### **Glass Passivated Single-Phase Bridge Rectifier**

### **FEATURES**

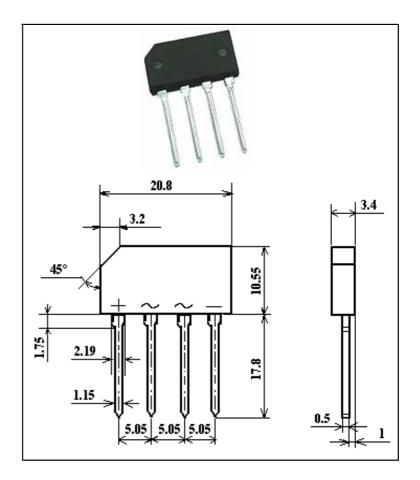
. Plastic Package has Underwriters Laboratory

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 <sub>RM</sub>	50	100	200	400	600	800	1000	V
Maximum DC reverse currentTA=25at rated DC blocking voltageTA=125	I <sub>R</sub>	5 500							μΑ
Average rectified forward current 60Hz Sine wave Resistance load with heat sink Tc=50	Іо	4							А
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load	I <sub>FSM</sub>	150							А
Dielectric strength Terminals to case, AC 1 minute Current 1mA	Vdia	2.5							KV
Maximum instantaneous forward voltage at 4A	V <sub>F</sub>	1.1							V
Operating junction temperature	T <sub>J</sub>		150						
Storage temperature	Tstg	-55~150							



# GBL4005 Thru GBL410

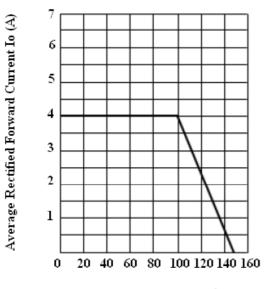
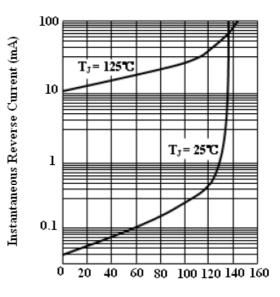


Fig.1 Derating Curve

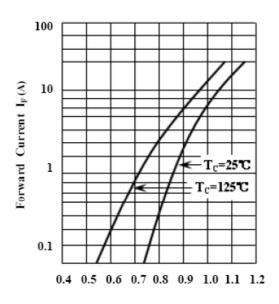
Case Temperature Tc (C)

#### Fig.2 Typical Reverse Characteristics



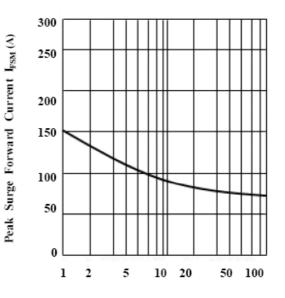
Percent Of Rated Peak Reverse Voltage %

#### Fig.3 Forward Voltage



Forward Voltage V<sub>F</sub>(V)

Fig.4 Peak Surge Forward Capability



Number Of Cycles (cycles.)