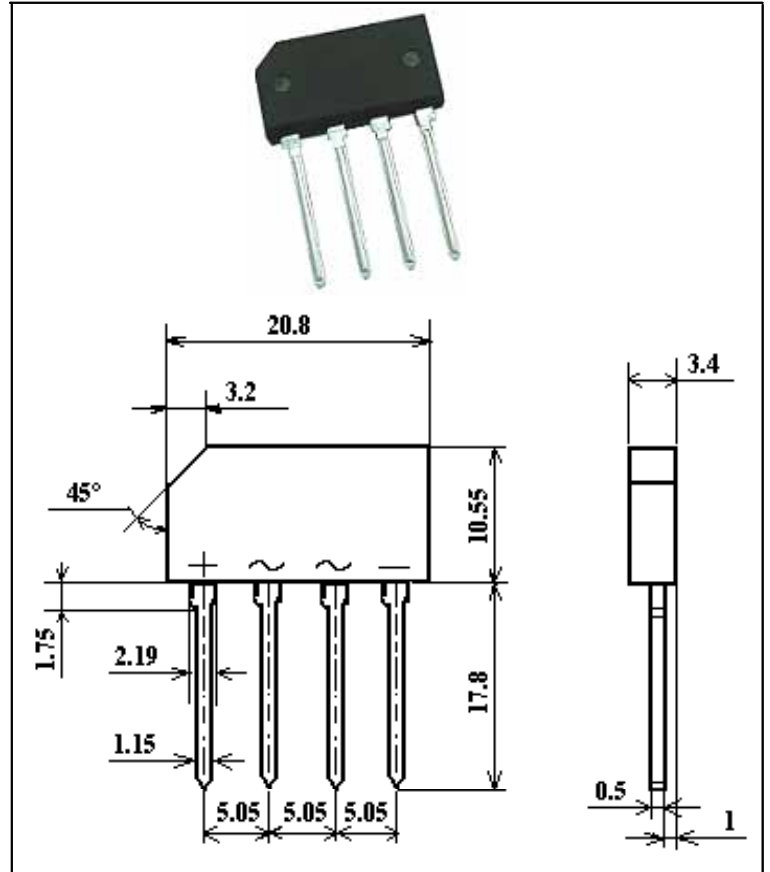


GBL2005 Thru GBL210

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 capacity with small package
- . Superior thermal conductivity
- . High temperature soldering guaranteed:
260 /10 seconds
- . High I_{FSM}



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

Parameter Symbol	Symbol	GBL2005	GBL201	GBL202	GBL204	GBL206	GBL208	GBL210	Unit
Maximum repetitive voltage	V_{RM}	50	100	200	400	600	800	1000	V
Maximum DC reverse current at rated DC blocking voltage	I_R	5 500							μA
Average rectified forward current 60Hz Sine wave Resistance load with heat sink $T_c=50$	I_o	2							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80							A
Dielectric strength Terminals to case , AC 1 minute Current 1mA	V_{dia}	2.5							KV
Maximum instantaneous forward voltage at 4A	V_F	1.1							V
Operating junction temperature	T_J	150							
Storage temperature	T_{stg}	-55~150							

GBL2005 Thru GBL210

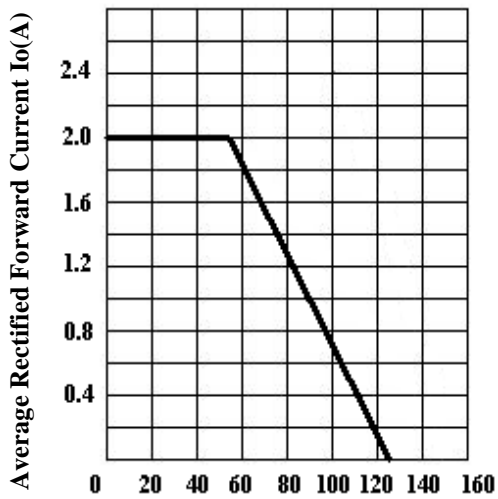
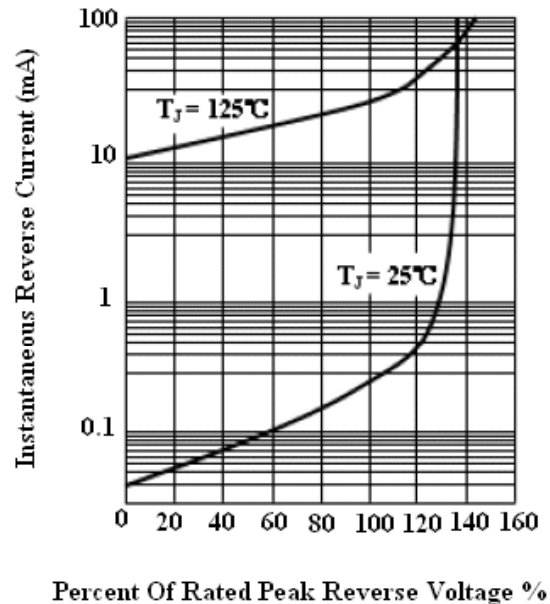
Fig.1 derating Curve

 Case Temperature T_c ()

Fig.2 Typical Reverse Characteristics


Percent Of Rated Peak Reverse Voltage %

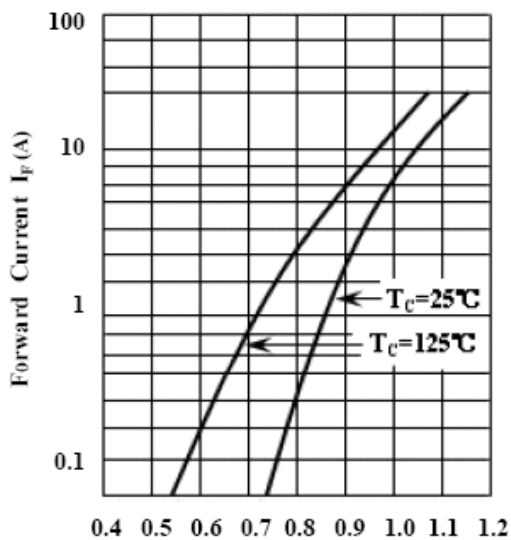
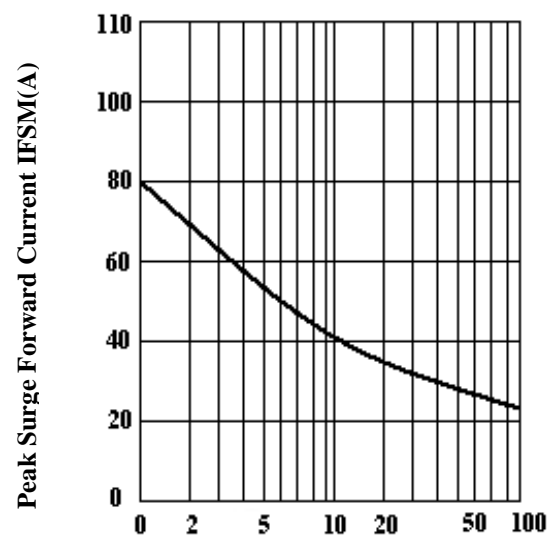
Fig.3 Forward Voltage

 Forward Voltage V_F (V)

Fig.4 Peak Surge Forward capability


Number of Cycles at 60 Hz(cycles)