

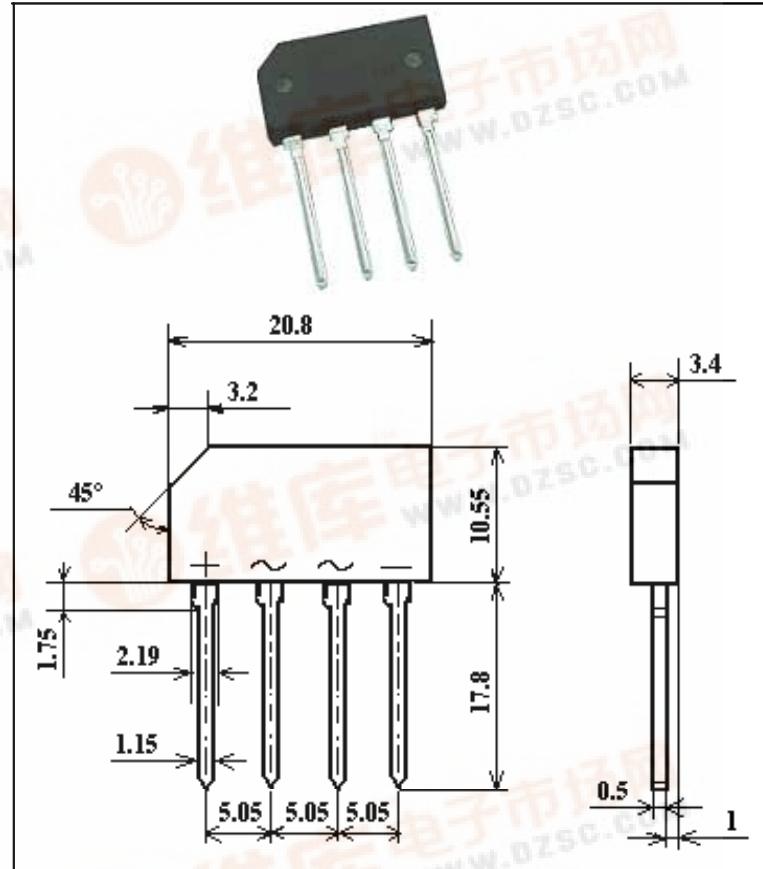


## GBL4005 Thru GBL410

### 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 guaranteed:  
260 /10 seconds
- . High  $I_{F\text{SM}}$

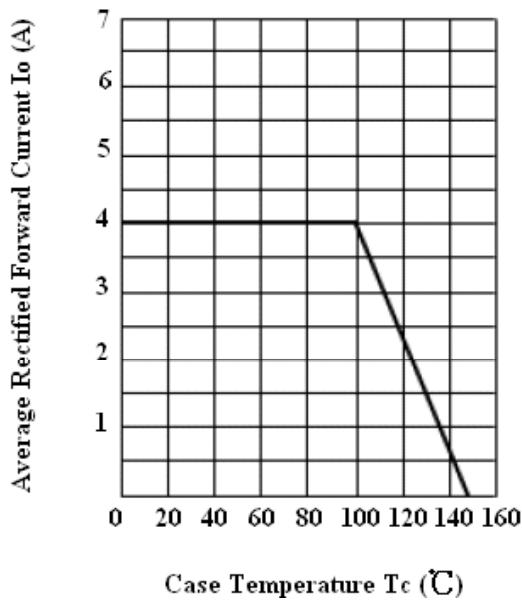


#### Maximum Ratings & Thermal Characteristics Ratings at 25 ambient temperature unless otherwise specified.

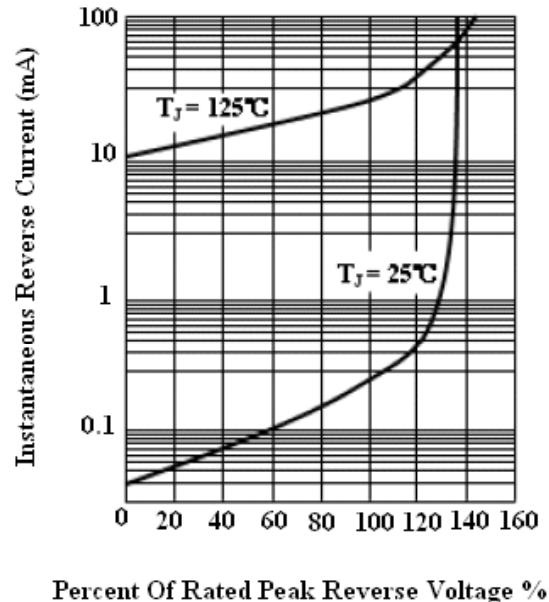
Parameter Symbol	Symbol	GBL4005	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410	Unit
Maximum repetitive voltage	$V_{RM}$	50	100	200	400	600	800	1000	V
Maximum DC reverse current at rated DC blocking voltage	$I_R$				5				$\mu A$
					500				
Average rectified forward current 60Hz Sine wave Resistance load with heat sink $T_c=50$	$I_o$				4				A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	$I_{F\text{SM}}$				150				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				

## GBL4005 Thru GBL410

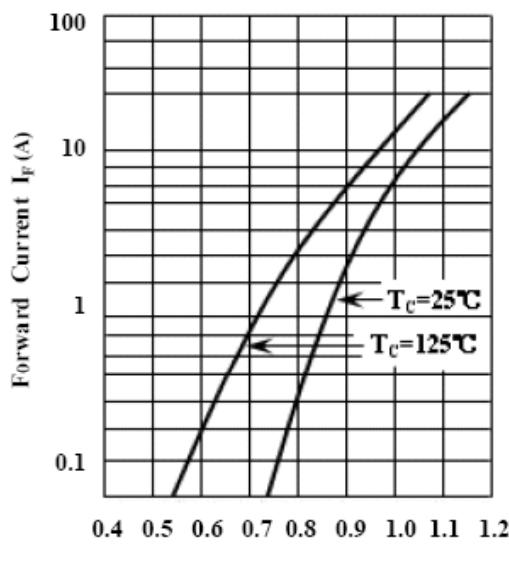
**Fig.1 Derating Curve**



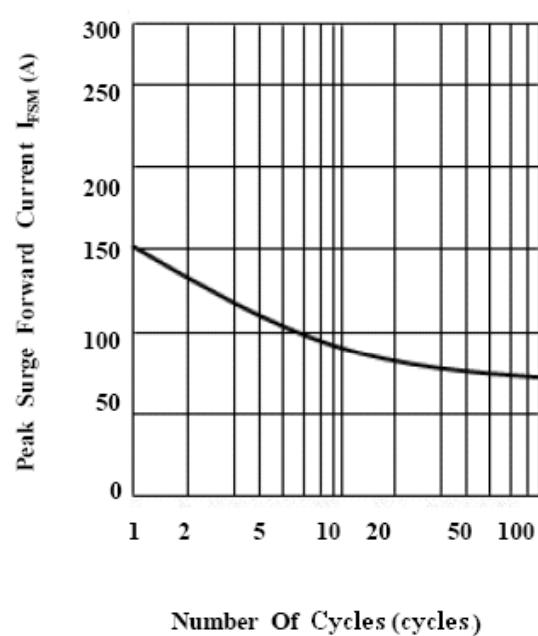
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Forward Voltage**



**Fig.4 Peak Surge Forward Capability**



Forward Voltage  $V_F$  (V)

Number Of Cycles (cycles)