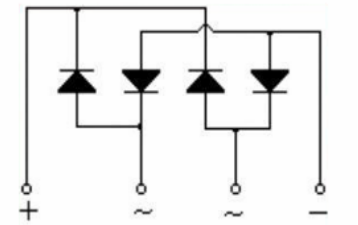
Bridge rectifiers

Feature

- 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}
- We declare that the material of product compliance with RoHS reqirements.

GBL4005 Thru GBL410



Circuit Diagram

Product Characteristic

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							μA
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}	120							A
Dielectric strength Terminals to case， AC 1 minute Current 1mA	Vdia	2.5							KV
Maximum instantaneous forward voltage at 2.0	V_F	1.1							V
Operating junction temperature	T_J	150							℃
Storage temperature	Tstg	-55~150							℃

Characteristic Curves

Fig. 1 Derating Curve

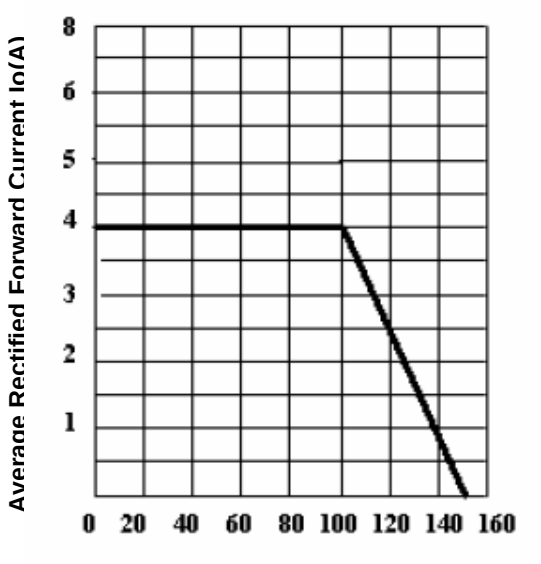


Fig.2 Typical Reverse Characteristics

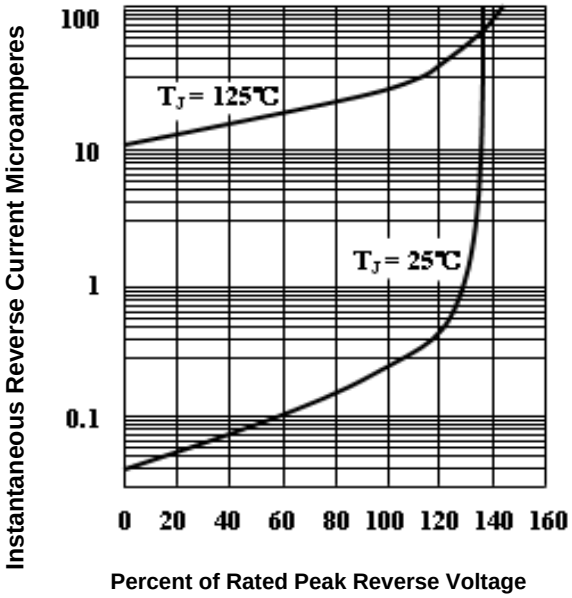


Fig.3 Peak Surge Forward capability

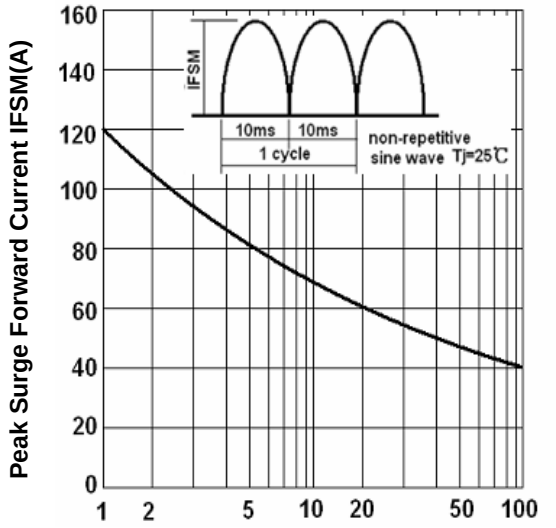
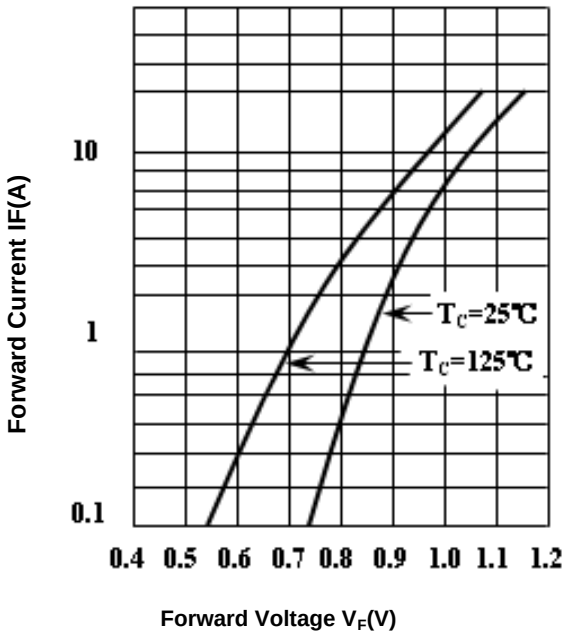
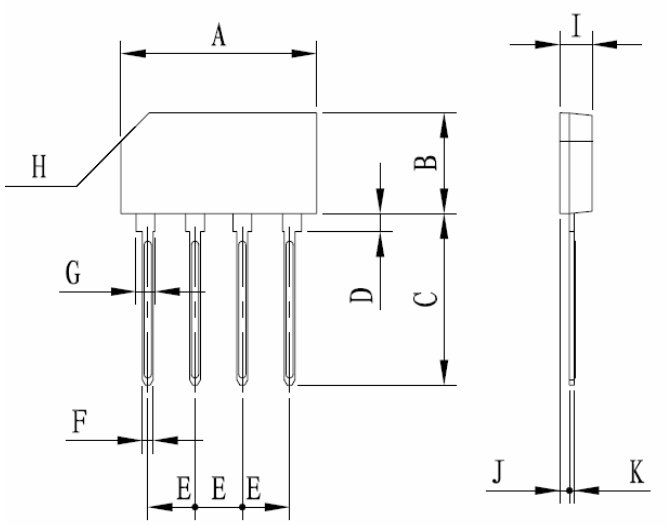


Fig.4 Forward Voltage



SHAPE AND DIMENSIONS



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.803	0.827	20.40	21.00
B	0.402	0.425	10.20	10.80
C	0.684	0.723	17.37	18.37
D	0.054	0.093	1.37	2.37
E	0.189	0.205	4.80	5.20
F	0.035	0.051	0.90	1.30
G	0.071	0.087	1.80	2.20
H	0.118*45°		3*45°	
I	0.126	0.142	3.20	3.60
J	0.031	0.047	0.80	1.20
K	0.012	0.028	0.30	0.70

NOTES: 1. DIMENSIONING AND TOLERANCING PER ANSIY14.5M, 1982.
2. CONTROLLING DIMENSION: mm.