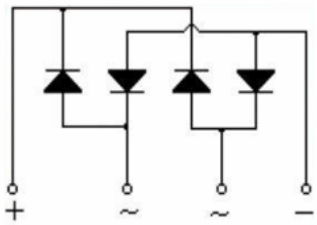
Bridge rectifiers

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.

GBU6A Thru GBU6M



Circuit Diagram

Product Characteristic

Item	Symbol	GBU6A	GBU6B	GBU6D	GBU6G	GBU6J	GBU6K	GBU6M	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 recified forward current 60Hz sine wave,R-load with heatsink Tc=100℃(1)(2)	Io	6							A
Peak forward surge current 10.0 ms single half sine-wave superimposed on rated load	I_{FSM}	175							A
Dielectric strength Terminals to case, AC 1 minute Current 1mA	Vdia	2.5							KV
Maximum instantaneous forward voltage at 3.0A	V_F	1.1							V
Operating junction temperature	Tj	150							℃
Storage temperature	Tstg	-55~150							℃

Notes：(1)Unit case mounted on Al plate heat-sink (2) Unites mounted on P.C.B. without heat-sink

(3)Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw{heat-sink size:6.35*3.5*0.15cm)

Characteristic Curves

Fig. 1 Derating Curve

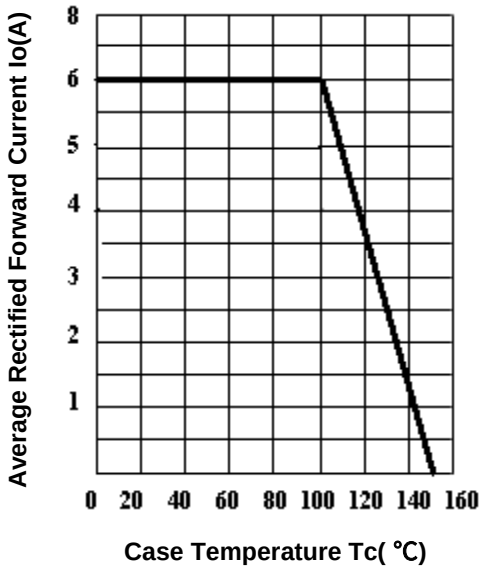


Fig.2 Typical Reverse Characteristics

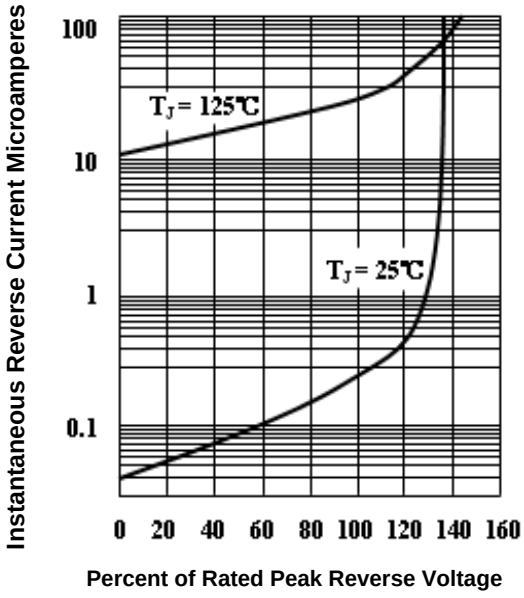


Fig.3 Peak Surge Forward capability

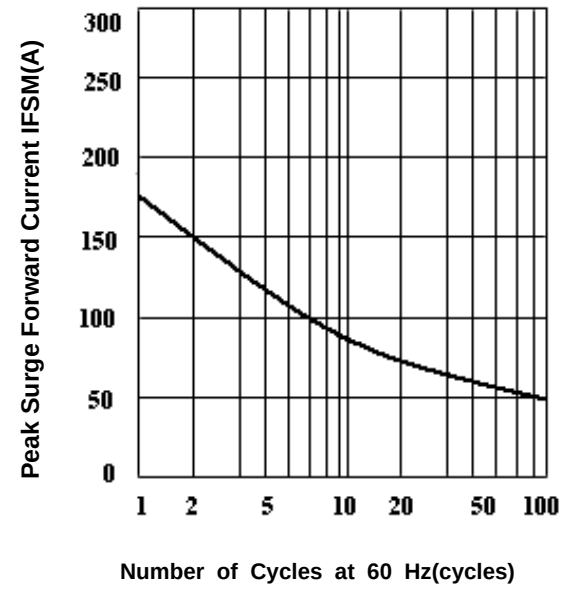
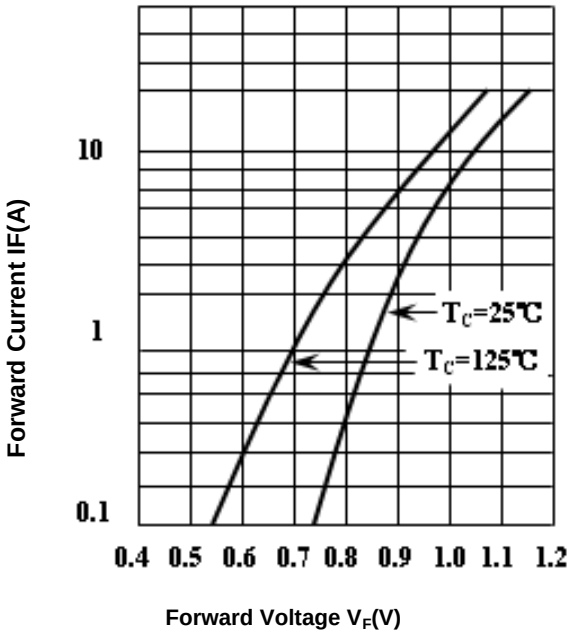
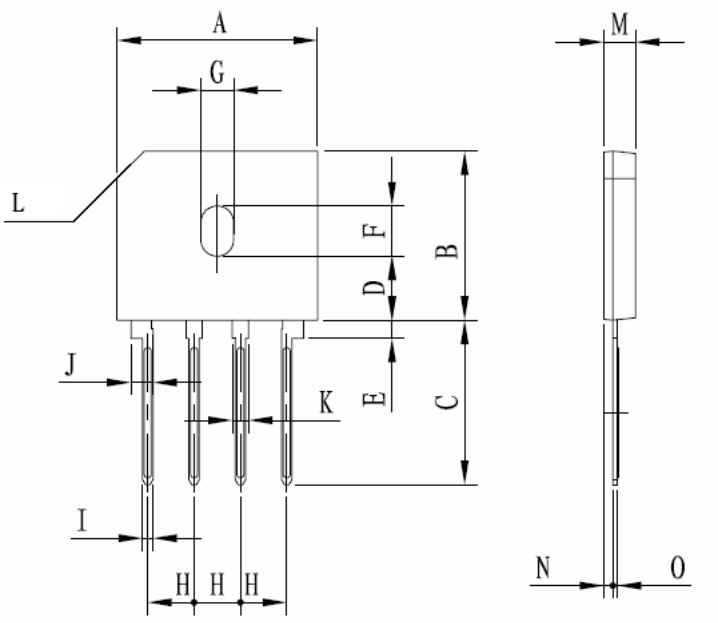


Fig.4 Forward Voltage



SHAPE AND DIMENSIONS



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.854	0.878	21.70	22.30
B	0.717	0.740	18.20	18.80
C	0.689	0.728	17.50	18.50
D	0.268	0.283	6.80	7.20
E	0.071	0.087	1.80	2.20
F	0.213	0.220	5.40	5.60
G	0.138	0.146	3.50	3.70
H	0.192	0.208	4.88	5.28
I	0.031	0.047	0.80	1.20
J	0.09	0.10	2.21	2.61
K	0.062	0.078	1.58	1.98
L	0.118*45°		3*45°	
M	0.130	0.146	3.30	3.70
N	0.031	0.047	0.80	1.20
O	0.012	0.028	0.30	0.70

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