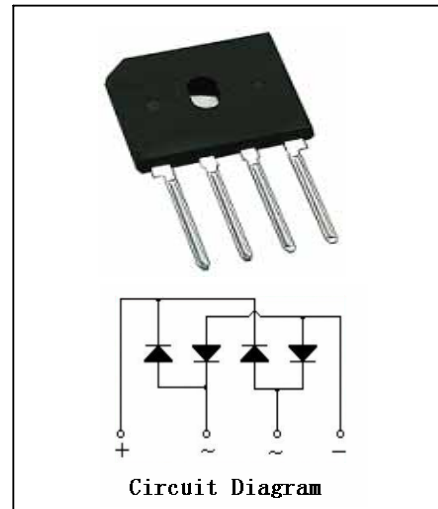


# Bridge rectifiers

## 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 capacity with small package
- . Superior thermal conductivity
- . High temperature soldering guaranteed:  
260 /10 seconds
- . High  $I_{FSM}$
- . We declare that the material of product compliance with RoHS requirements.

### GBU8 Series



## Product Characteristic

Item	Symbol	GBU8A	GBU8B	GBU8D	GBU8G	GBU8J	GBU8K	GBU8M	Unit
Maximum repetitive voltage	$V_{RM}$	50	100	200	400	600	800	1000	V
Maximum DC reverse current $T_A=25$ at rated DC blocking voltage $T_A=125$	$I_R$	5 500							$\mu A$
Average rectified forward current 60Hz sine wave, R-load with heatsink $T_c=100$ <sup>(1)(2)</sup>	$I_o$	8							A
Peak forward surge current 10.0 ms single half sine-wave superimposed on rated load	$I_{FSM}$	200							A
Dielectric strength Terminals to case, AC 1 minute Current 1mA	$V_{dia}$	2.5							KV
Typical thermal resistance per leg <sup>(3)</sup>	$R_{\theta JA}$	21 <sup>(2)</sup>							/W
	$R_{\theta JC}$	2.2 <sup>(1)</sup>							
Maximum instantaneous forward voltage at 4A	$V_F$	1.0							V
Operating junction temperature	$T_j$	150							
Storage temperature	$T_{stg}$	-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:8.2\*8.2\*03cm}

## Characteristic Curves

Fig. 1 Derating Curves

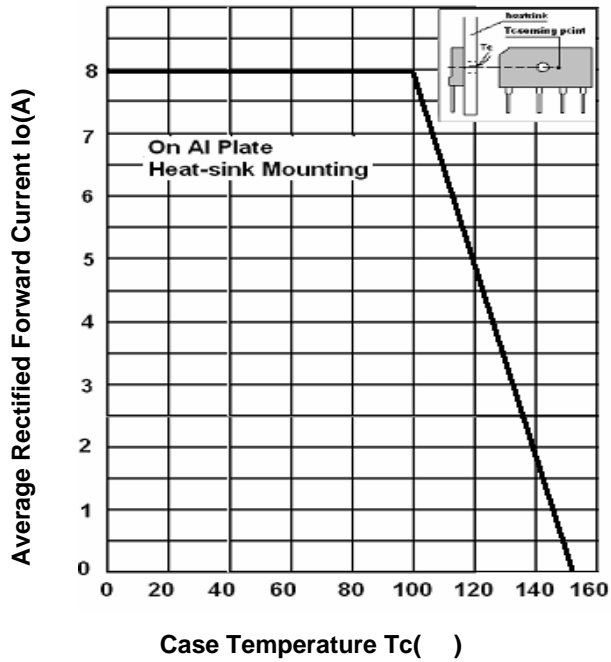


Fig.2 Typical Reverse Characteristics

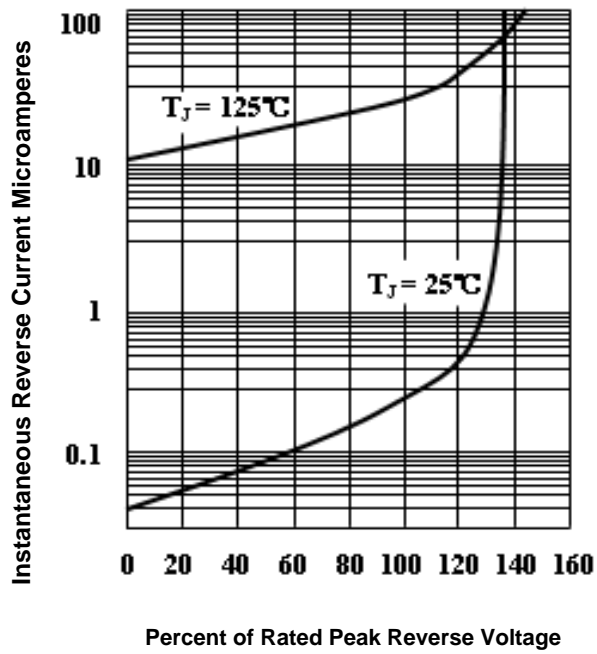


Fig.3 Peak Surge Forward capability

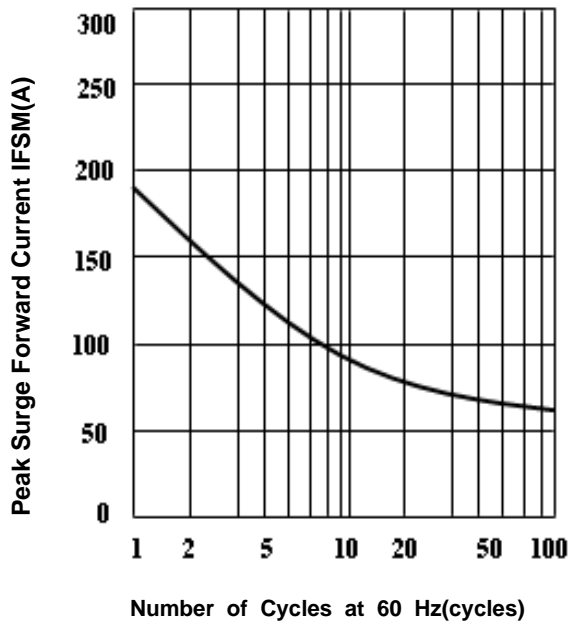
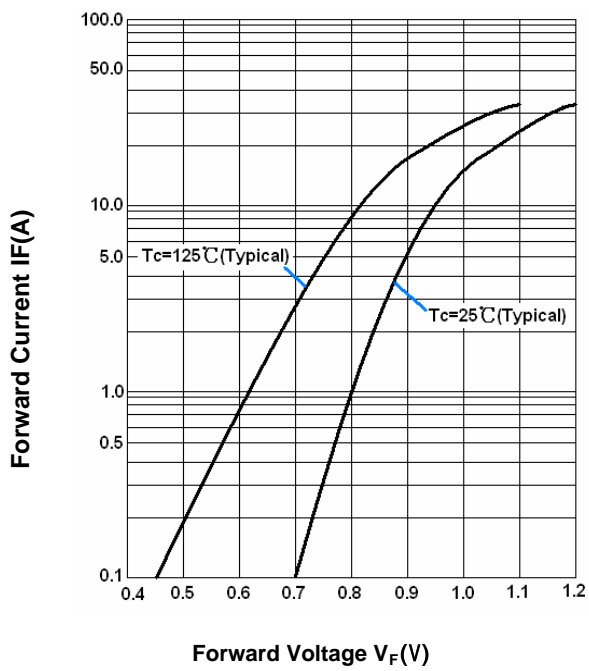
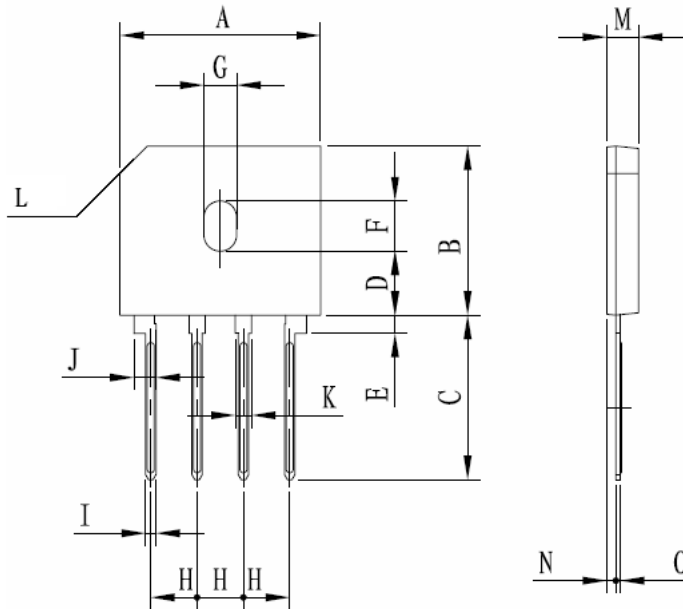


Fig.4 Forward Voltage



## 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 ANSII Y14.5M, 1982.  
2. CONTROLLING DIMENSION: mm.