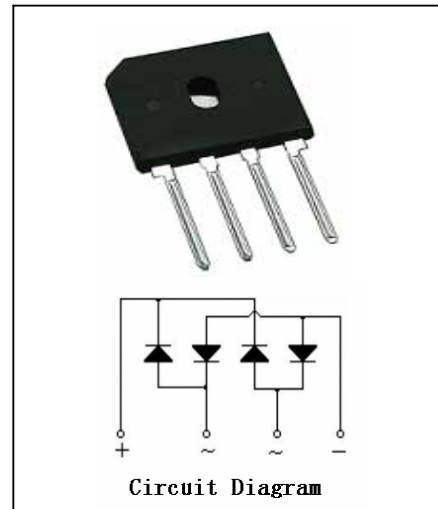


Bridge rectifiers

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 | | | | | | | μA |
| Average rectified forward current 60Hz sine wave, R-load with heatsink $T_c=100$ ⁽¹⁾⁽²⁾ | 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 ⁽³⁾ | $R_{\theta JA}$ | 21 ⁽²⁾ | | | | | | | /W |
| | $R_{\theta JC}$ | 2.2 ⁽¹⁾ | | | | | | | |
| 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

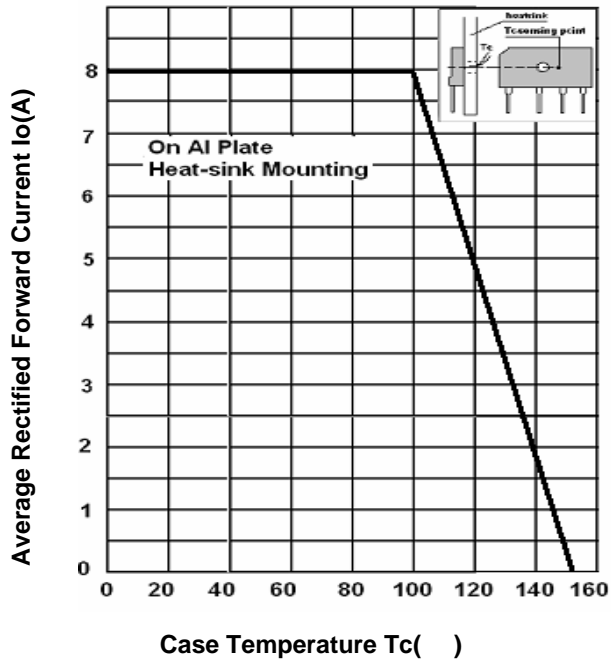


Fig.2 Typical Reverse Characteristics

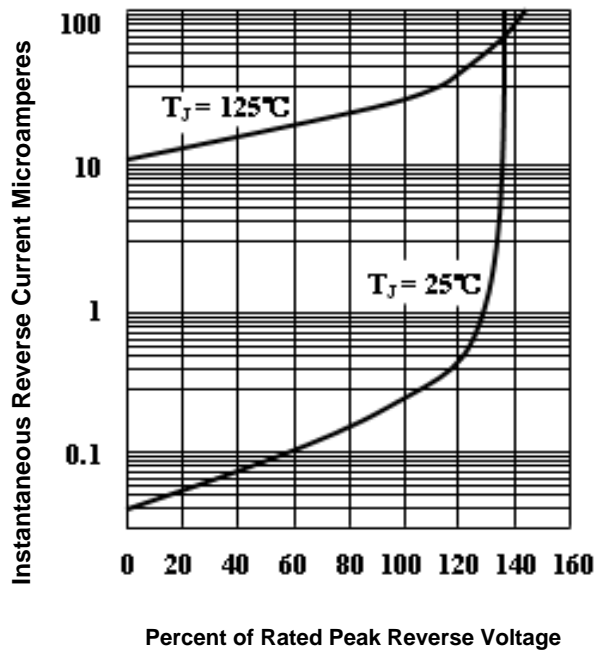


Fig.3 Peak Surge Forward capability

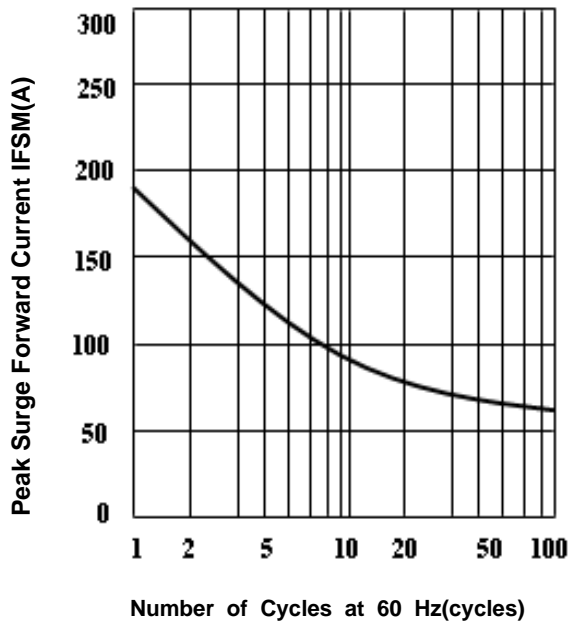
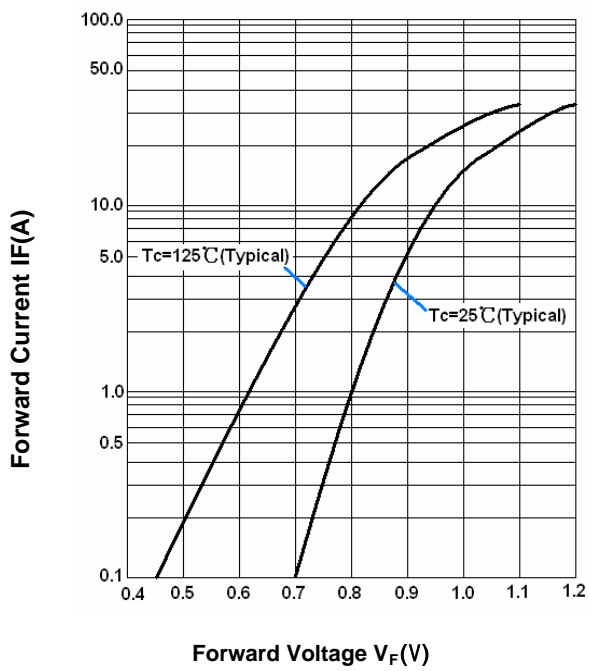
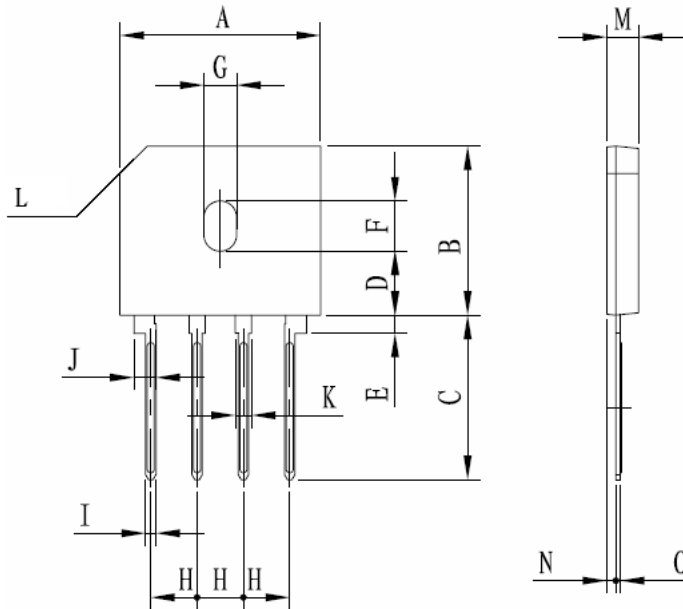


Fig.4 Forward Voltage



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.