

2A Glass Passivated Single-Phase Bridge Rectifier

Features

- ◆ Glass Passivated Chip
- ◆ High Surge Current Capability
- ◆ Low Reverse Leakage Current
- ◆ Case to Terminal Isolation Voltage 2500V

Application

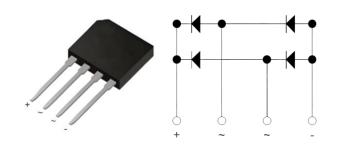
- **♦** LED Lighting
- ◆ Switching Mode Power Supply
- ◆ General Purpose Single-Phase Bridge Rectifier



◆ Case: Plastic Package

◆ Marking / Polarity: Marked on Body

◆ Weight: About 1.2 Grams



Maximum Ratings and Thermal Characteristics $T_A = 25$ °C unless otherwise noted

| Symbol | Parameter | | Rating | Unit |
|-----------------------------------|---|------------------------|------------|------------------|
| V_{RRM} | Recurrent Peak Reverse Voltage | | 1000 | V |
| I _{F(AV)} | Average Forward Output Rectified Current, T _A = 120°C | | 2.0 | А |
| V _F | Maximum Forward Voltage Per Leg, I _{FM} = 2.0A | | 1.02 | V |
| I _{FSM} | Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load | | 45 | А |
| I _R | Maximum DC Reverse Current at Rated DC Blocking Voltage | T _A = 25°C | 5.0 | μΑ |
| | | T _A = 125°C | 500 | |
| i ² t | Rating for Fusing (t < 8.3ms) | | 8.4 | A ² S |
| V _{isol} | Rms Isolation Voltage from Case to Leads | | 2500 | V |
| CJ | Typical Junction Capacitance | | 18 | pF |
| R _θ J _C | Maximum Thermal Resistance Per Leg | | 10 | °C/W |
| T _J , T _{STG} | Operating Junction and Storage Temperature Range | | -55 to 150 | °C |

Notes:

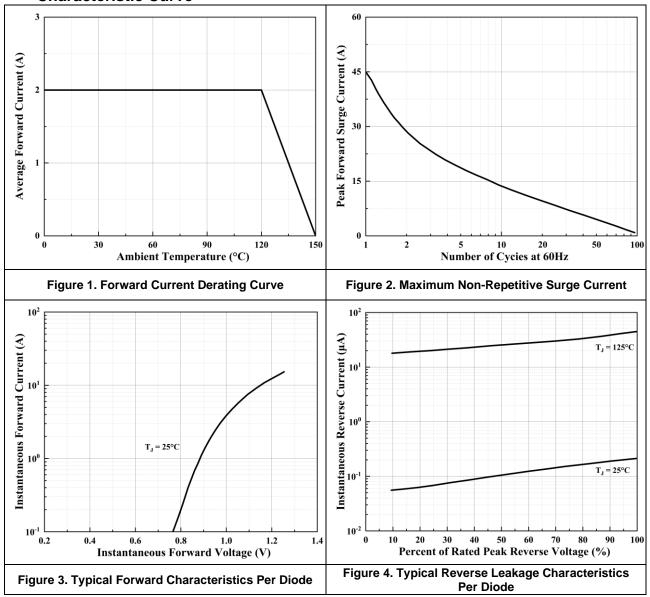
a. Junction to case with heatsink.

b. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw.



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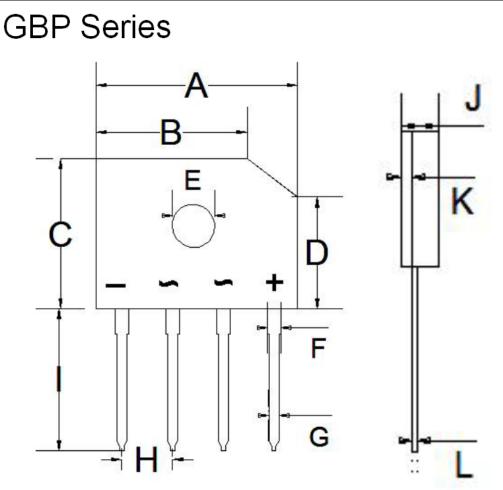
■ Characteristic Curve





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■ Package Information



| Item | Min(mm) | Max (mm) |
|------|---------|----------|
| A | 13. 95 | 14. 45 |
| В | 11. 45 | 11. 85 |
| С | 10. 25 | 10. 65 |
| D | 7. 86 | 8. 26 |
| Е | 2. 95 | 3. 05 |
| F | 1. 35 | 1. 50 |
| G | 0. 75 | 0.85 |
| Н | 3. 50 | 3. 90 |
| I | 14. 35 | 14. 50 |
| J | 2. 95 | 3. 05 |
| K | 0.80 | 0. 95 |
| L | 0. 30 | 0.40 |