

Glass Passivated Bridge Rectifier



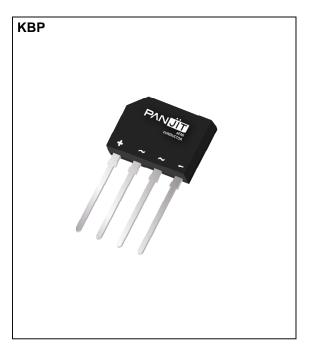
1000 V

Current

4A

Features

- UL recognition file number E228882
- Ideal for printed circuit boards
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard



Mechanical Data

- Case : KBP Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0536 ounces, 1.52 grams

Application

- USB PD & NB Adapter(<45W)
- Monitor power adapter (<100W)
- General Adapter (<100W)



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

| PARAMETER | | SYMBOL | LIMIT | UNITS | |
|---|---|------------------|------------|------------------|--|
| Maximum Repetitive Peak Reverse Voltage | | Vrrm | 1000 | V | |
| Maximum RMS Voltage | | V _{RMS} | 700 | V | |
| Maximum DC Blocking Voltage | | V _{DC} | 1000 | V | |
| Maximum Average Forward Current | | IF(AV) | 4 | А | |
| Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 25 °C @ T _A = 125 °C | IFSM | 75 60 | А | |
| Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 25 °C @ T _A = 125 °C | IFSM | 150 120 | А | |
| I^2 t rating for fusing (t = 8.3ms) | | l ² t | 23.3 | A ² S | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$ | | CJ | 50 | pF | |
| Typical Thermal Resistance | (Note 1) | R _{0JA} | 40 | °C/W | |
| | (Note 2) | R _{θJC} | 12 | | |
| Operating Junction Temperature Range | | TJ | -55~150 | °C | |
| Storage Temperature Range | | T _{STG} | -55~150 | ٥C | |

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS | |
|-----------------|--------|---|------|------|------|-------|--|
| Forward Voltage | VF | $I_F = 4 \text{ A}, T_J = 25 ^{\circ}\text{C}$ | - | - | 1.1 | V | |
| Reverse Current | IR | V _R = 1000 V, T _J = 25 °C | - | - | 5 | uA | |
| | | V _R = 1000 V,T _J = 125 °C | - | - | 500 | | |

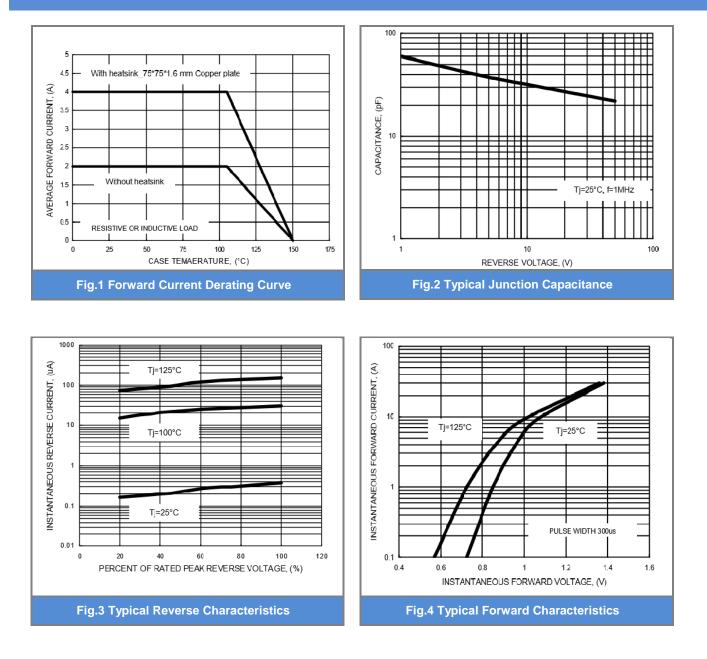
NOTES :

- 1. Mounted on a FR4 PCB standard pad
- 2. Thermal Resistance Junction to Case, Lead and Ambient



KBP4M

TYPICAL CHARACTERISTIC CURVES

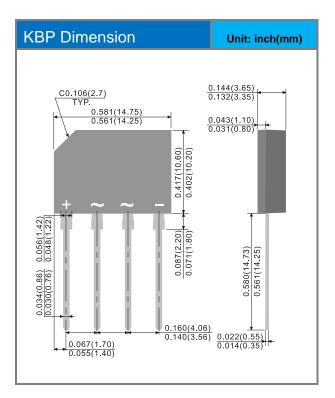




Part No. Packing Code Version

| Part No. Packing Code | Package Type | Packing Type | Marking | |
|-----------------------|--------------|---------------|---------|--|
| KBP4M_B0_00101 | KBP | 500 pcs / Box | KBP4M | |

Packaging Information





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