

Glass Passivated Bridge Rectifier

Voltage 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

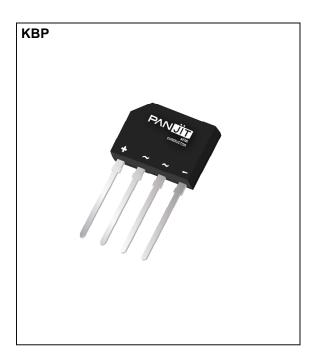
• Case: KBP Package

• 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 | | V_{RRM} | 1000 | V | |
| Maximum RMS Voltage | | V_{RMS} | 700 | V | |
| Maximum DC Blocking Voltage | | V _{DC} | 1000 | V | |
| Maximum Average Forward Current | | I _{F(AV)} | 4 | Α | |
| 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 | Α | |
| Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load | @ T _A = 25 °C @ T _A = 125 °C | I _{FSM} | 150 120 | А | |
| I ² t rating for fusing (t = 8.3ms) | | I²t | 23.3 | A ² S | |
| Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$ | | CJ | 50 | pF | |
| Typical Thermal Resistance | (Note 1) | $R_{\theta JA}$ | 40 | °C/W | |
| | (Note 2) | R _{θJC} | 12 | | |
| Operating Junction Temperature Range | | TJ | -55~150 | °C | |
| Storage Temperature Range | | T _{STG} | -55~150 | °C | |

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

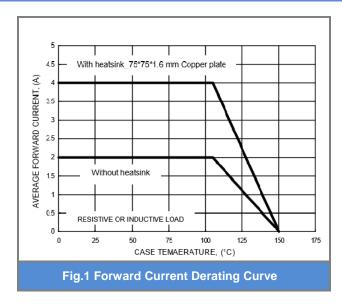
| PARAMETER | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNITS |
|-----------------|----------------|---|---------|------|------|-------|
| Forward Voltage | V _F | I _F = 4 A, T _J = 25 °C | ı | 1 | 1.1 | V |
| Reverse Current | I _R | V _R = 1000 V, T _J = 25 °C | = 25 °C | | 5 | |
| | | V _R = 1000 V,T _J = 125 °C | - | - | 500 | uA |

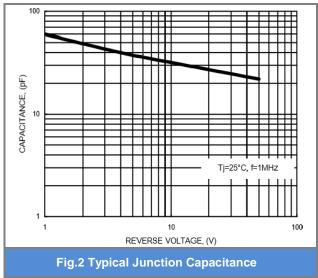
NOTES:

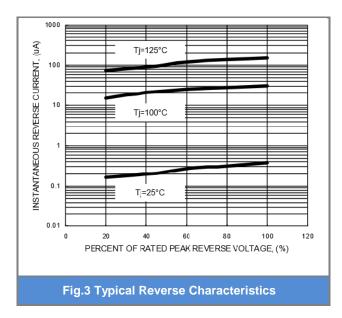
- 1. Mounted on a FR4 PCB standard pad
- 2. Thermal Resistance Junction to Case, Lead and Ambient

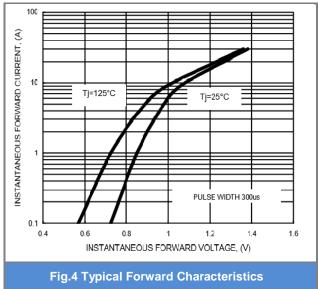


TYPICAL CHARACTERISTIC CURVES







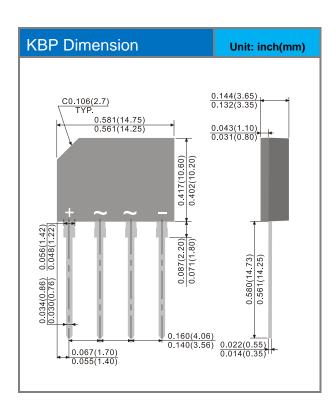




Part No. Packing Code Version

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

Packaging Information



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