

## **Glass Passivated Bridge Rectifier**

Voltage 1000 V Current 2A

#### **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



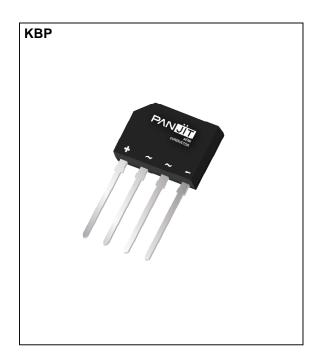
• Case: KBP Package

• 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)</li>
- 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 <sub>DC</sub>	1000	٧
Maximum Average Forward Current		I <sub>F(AV)</sub>	2	Α
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C @ T <sub>A</sub> = 125 °C	IFSM	55 44	Α
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 25 °C @ T <sub>A</sub> = 125 °C	I <sub>FSM</sub>	110 88	Α
I <sup>2</sup> t rating for fusing (t = 8.3ms)		I²t	12.5	A <sup>2</sup> S
Typical Junction Capacitance  Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V		Сл	25	pF
Typical Thermal Resistance (Note 1) (Note 2)		R <sub>eJA</sub> R <sub>eJC</sub>	40 18	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T <sub>STG</sub>	-55~150	°C

# **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

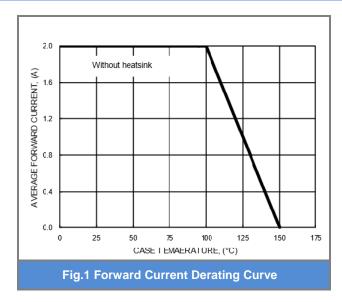
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 2 A, T <sub>J</sub> = 25 °C	ı	ı	1.1	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	-	-	5	
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	5°C 100		100	uA

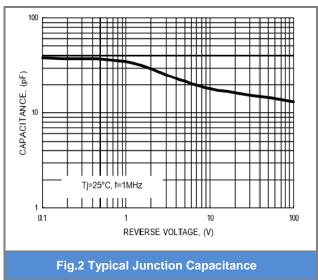
#### NOTES:

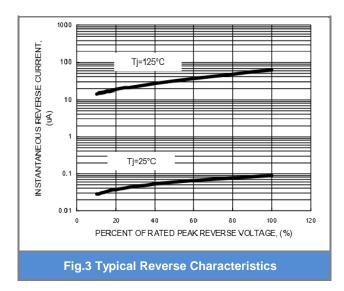
- 1. Mounted on a FR4 PCB standard pad
- 2. Thermal Resistance Junction to Case, Lead and Ambient

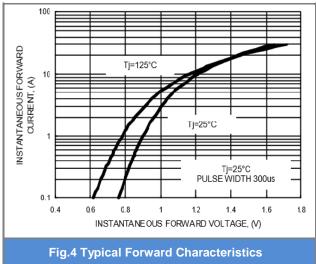


#### **TYPICAL CHARACTERISTIC CURVES**







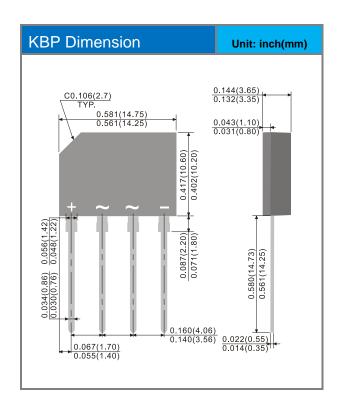




## Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
KBP2M_B0_00101	KBP	500 pcs / Box	KBP2M

### **Packaging Information**





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