

## **Glass Passivated Bridge Rectifier**



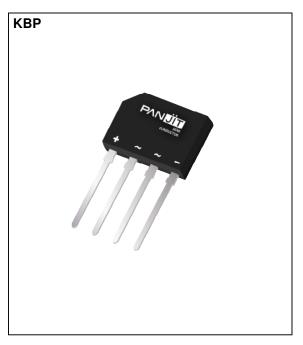
1000 V

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 : 0.05 ounces, 1.52 grams

### Application

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



## Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		VRRM	1000	V
Maximum RMS Voltage		V <sub>RMS</sub>	700	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V
Maximum Average Forward Current		I <sub>F(AV)</sub>	4	А
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	130 104	А
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	IFSM	260 208	А
$I^2$ t rating for fusing (t = 8.3ms)	l <sup>2</sup> t	70.1	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{R} = 4 V$	CJ	40	pF	
Typical Thermal Resistance (Note 1) (Note 2)		R <sub>θJA</sub> R <sub>θJC</sub>	15 6	°C/W
Operating Junction Temperature Range	ΠθJC TJ	-55~150	٥C	
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	VF	$I_F = 4 \text{ A},  T_J = 25 ^{\circ}\text{C}$	-	-	1.1	V	
Reverse Current	IR	$V_R = 1000 V, T_J = 25 \circ C$	-	-	5	uA	
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	500		

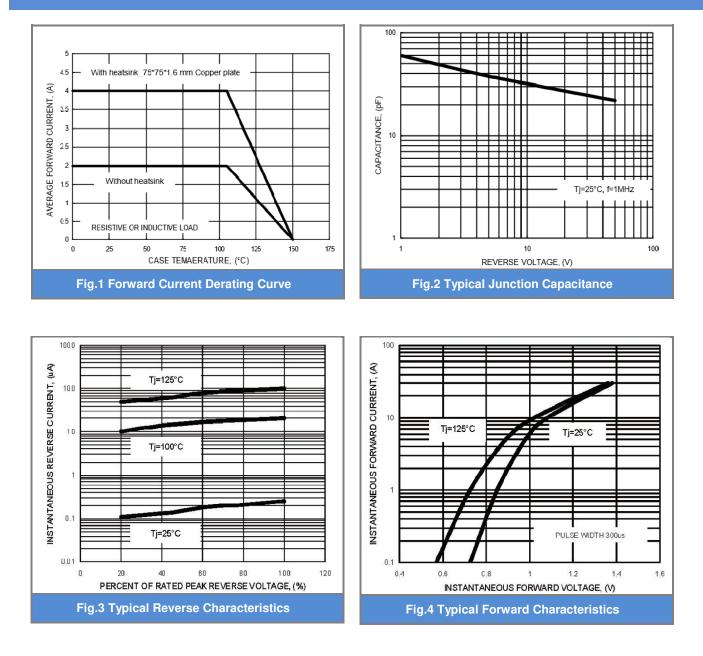
NOTES :

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



# **KBP4MI**

#### **TYPICAL CHARACTERISTIC CURVES**

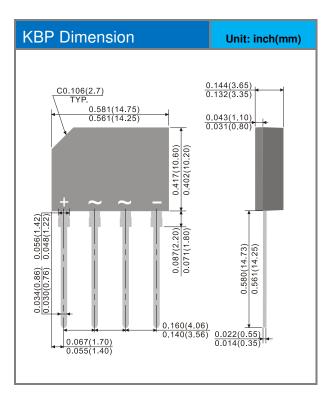




### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	
KBP4MI_B0_00101	KBP	500 pcs / Box	KBP4MI	

## **Packaging Information**





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