

## **General Purpose Rectifier**

Voltage 1000 V Current 2A

#### **Features**

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **Mechanical Data**

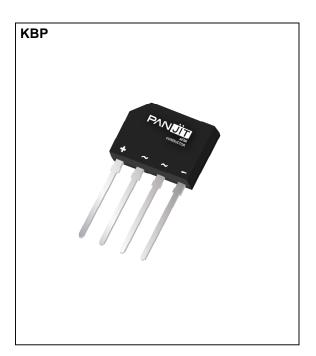
• Case: KBP Package

• 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)</li>
- General Adapter (<100W)</li>





# **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	V
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	Ігѕм	75 60	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>	150 120	Α
$I^2$ t rating for fusing (t = 8.3ms)	I²t	23.3	A <sup>2</sup> S	
Typical Junction Capacitance  Measured at 1 MHZ And Applied V <sub>R</sub> = 4 V		Сл	50	pF
Typical Thermal Resistance (Note 1) (Note 2)		R <sub>θJA</sub> R <sub>θJC</sub>	40 12	°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	C 10		100	T uA

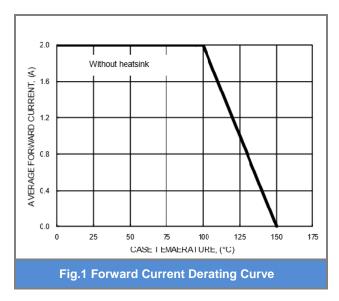
### NOTES:

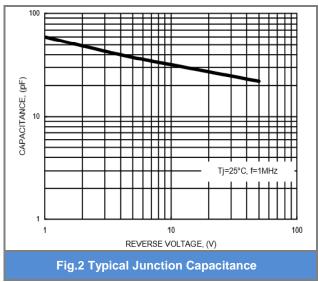
- 1. Mounted on a FR4 PCB standard pad
- 2. Thermal Resistance Junction to Case, Lead and Ambient

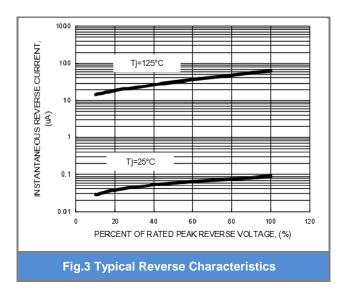
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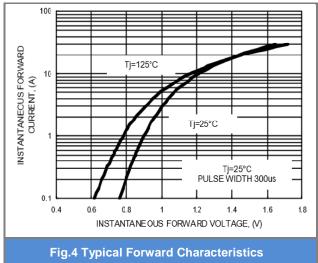


### **TYPICAL CHARACTERISTIC CURVES**







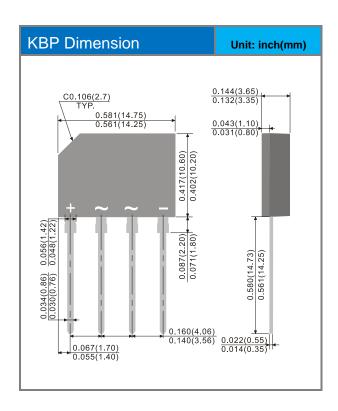




## Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking
KBP2MI_T0_00101	KBP	35 pcs / tube	KBP2MI

## **Packaging Information**



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