

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

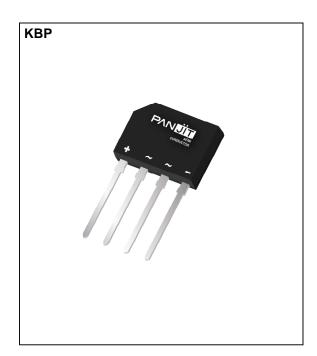
• Case: KBP Package

• 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)

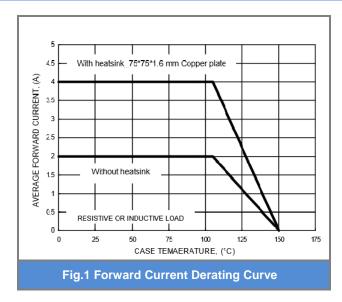
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 4 A, T _J = 25 °C	ı	1	1.1	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	
		V _R = 1000 V,T _J = 125 °C		-	500	uA

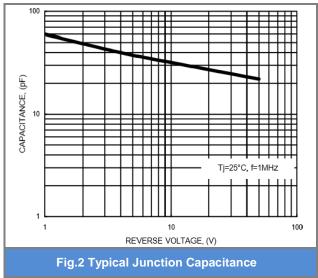
NOTES:

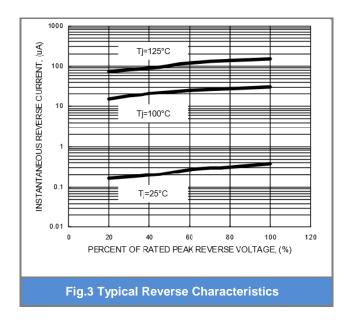
- 1. Mounted on a FR4 PCB standard pad
- 2. Thermal Resistance Junction to Case, Lead and Ambient

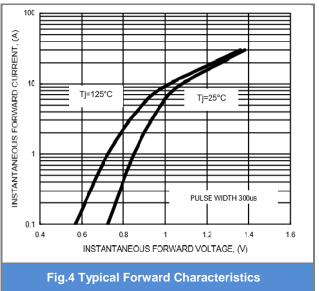


TYPICAL CHARACTERISTIC CURVES











Part No. Packing Code Version

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

Packaging Information

