



#### **Glass Passivated Bridge Rectifiers**

VOLTAGE 400 to 1000 Volt CURRENT 2 Ampere

#### **FEATURES**

- UL Recognized File #E228882
- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- •Glass passivated chip junction

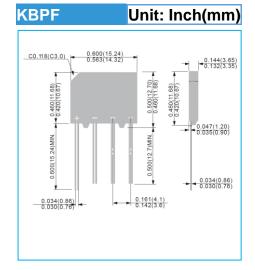
#### **MECHANICAL DATA**

· Case: KBPF

•Terminals: Leads solderable per MIL-STD-750, Method 2026

· Polarity: As marked on body

• Weight: 1.6g



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBP 204	KBP 206	KBP 208	KBP 2010	UNIT	
Maximum repetitive peak reverse vo	Itage V <sub>RRM</sub>	400	600	800	1000	V	
Maximum RMS voltage	VRMS	280	420	560	700	V	
Maximum DC blocking voltage	VDC	400	600	800	1000	V	
Maximum average forward rectified	current I <sub>F(AV)</sub>		2				
Peak forward surge current, 8.3 ms single half sine-wave	FSM		60				
Rating of fusing (t<8.3ms) (Note1)	l <sup>2</sup> t		15				
	· · · ·		1	1		V	
	25°C   I <sub>R</sub>		5 500				
Typical junction capacitance (Note2)	C <sub>J</sub>		23				
Typical thermal resistance (Note3)	R θ JA R θ JC		20 5				
Operating junction temperature rang	e T <sub>J</sub>		- 55 to +150				
Storage temperature range	Тѕтс		- 55 to +150				

Note 1: Non-repetitive, for t > 1ms and < 8.3ms.

Note 2: Measured at 1MHz and applied Reverse bias of 4V DC

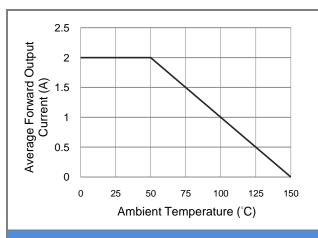
Note 3: Thermal resistance from junction to ambient and from junction to case mounted on PCB

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#### TYPICAL CHARACTERISTIC CURVES



**Fig.1 Forward Current Derating Curve** 

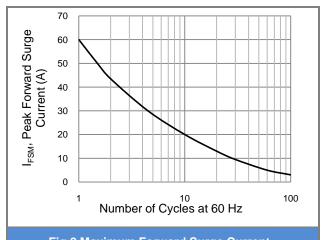


Fig.2 Maximum Forward Surge Current

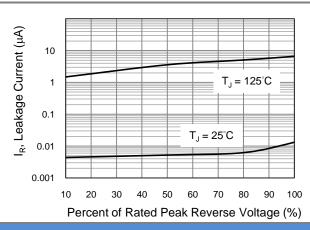


Fig.3 Typical Reverse Characteristics

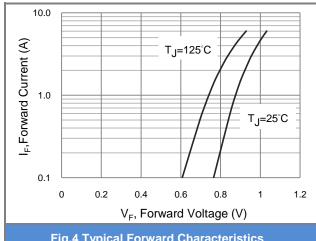
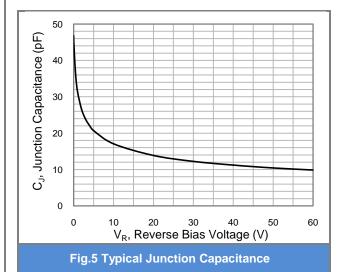


Fig.4 Typical Forward Characteristics



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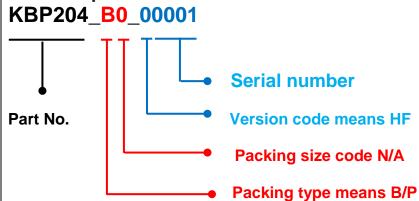




# Part No\_packing code\_Version

KBP204\_B0\_00001 KBP204\_B0\_10001

### For example:



Packing Code XX				Version Code XXXXX			
Packing type	I <sup>st</sup> Code	Packing size code	2 <sup>st</sup> Code	HF or RoHS	I <sup>st</sup> Code	2 <sup>st</sup> ~5 <sup>st</sup> Code	
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

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