KBP304~KBP3010

Glass Passivated Bridge Rectifiers

CURRENT VOLTAGE 400 to 1000 Volt 3 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

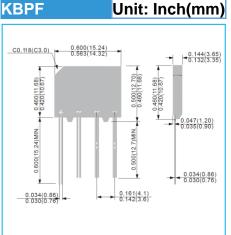
Rating at 25°Cambient temperature unless otherwise specified.

PARAMETER		SYMBOL	KBP 304	KBP 306	KBP 308	KBP 3010	UNIT
Maximum repetitive peak reverse voltage		Vrrm	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		F(AV)		А			
Peak forward surge current, 8.3 ms single half sine-wave		FSM		А			
Rating of fusing (t<8.3ms)	(Note1)	l ² t		2	0		A ² s
Maximum instantaneous forw voltage per diode	ard I⊧ = 1.5 A I⊧ = 3 A	VF		1	-		V
Maximum reverse current $T_J = 25^{\circ}C$		R	5				
@ rated V _R	TJ =125°C			<u> </u>			
Typical junction capacitance (Note 2)		CJ		pF			
Typical thermal resistance (Note3)		R∉ja R∉jc		°C/W			
Operating junction temperature range		TJ		°C			
Storage temperature range		Тѕтс		°C			

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





PANJ CONDUCTOR



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TYPICAL CHARACTERISTIC CURVES

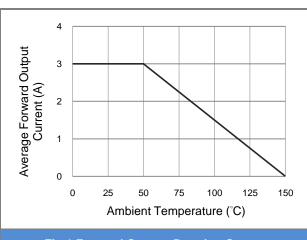
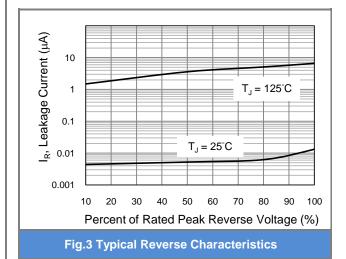
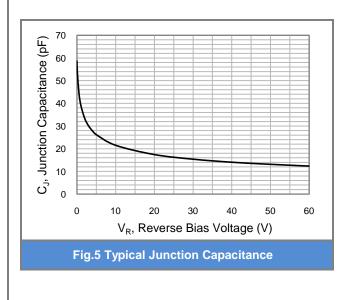


Fig.1 Forward Current Derating Curve





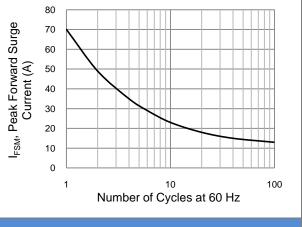


Fig.2 Maximum Forward Surge Current

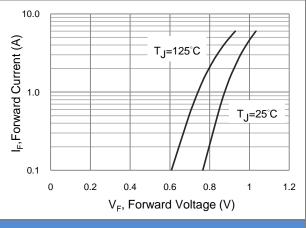


Fig.4 Typical Forward Characteristics



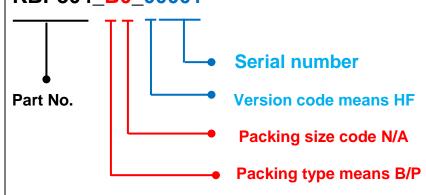


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Part No_packing code_Version

KBP304_B0_00001 KBP304_B0_10001

For example : KBP304_B0_00001



	Version Code XXXXX					
Packing type	I st Code	Packing size code	2 st Code	HF or RoHS	I st Code	$2^{st} \sim 5^{st}$ 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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