

Glass Passivated Bridge Rectifiers

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: KBP

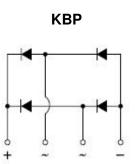
Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: Polarity as marked on the body

Weight: 1.5 g (approximately)







MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERIST	ICS (T _A	,=25 ℃ ι	inless of	herwise	noted)			
PARAMETER	SYMBOL	KBP	KBP	KBP	KBP	KBP	KBP	KBP	UNIT
FARAMETER	STMBOL	201G	202G	203G	204G	205G	206G	207G	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	2					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	60					A		
Rating for fusing (t<8.3ms)	l ² t				15				A ² s
Maximum instantaneous forward voltage (Note 1) I _F = 2 A	V _F	1.2					V		
Maximum DC reverse current $T_J=25 \degree C$ at rated DC blocking voltage $T_J=125\degree C$	I _R	10 500						μA	
Typical thermal resistance	R _{θjL} R _{θjA}	8 25					°C/W		
Operating junction temperature range	TJ	- 55 to +150						°C	
Storage temperature range	T _{STG}	- 55 to +150					°C		

Note 1: Pulse Test with PW=300µs,1% Duty Cycle



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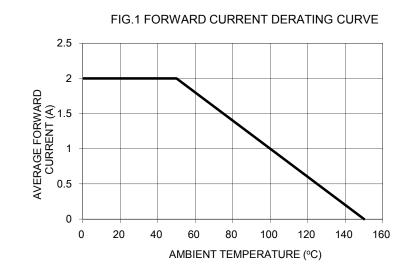
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
KBP20xG (Note 1)	C2	Suffix "G"	KBP	25 / TUBE		

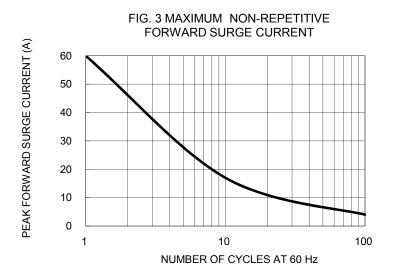
Note 1: "x" defines voltage from 50V (KBP201G) to 1000V (KBP207G)

EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
KBP207G C2	KBP207G	C2					
KBP207G C2G	KBP207G	C2	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^\circ\!\!\mathbb{C}$ unless otherwise noted)





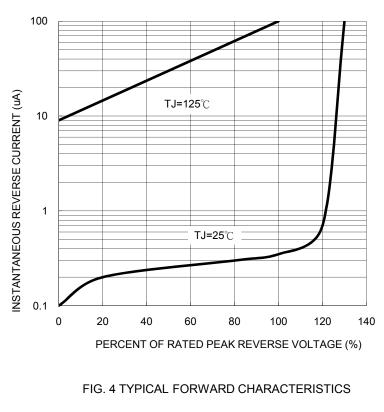


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

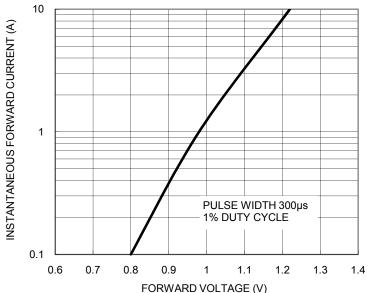
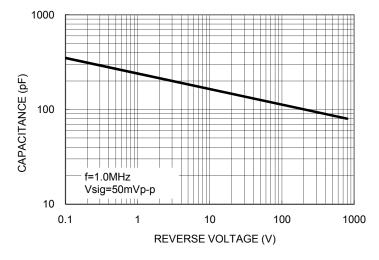
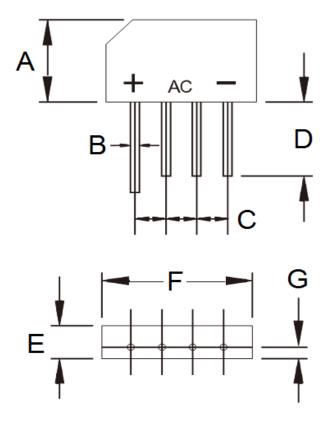




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



P/N

YW

G

F

DIM.	Unit	(mm)	Unit (inch)			
	Min Max		Min	Max		
А	10.60	11.68	0.417	0.460		
В	0.70	0.90	0.028	0.035		
С	3.60	4.10	0.142	0.161		
D	12.70	-	0.500	-		
E	3.70	3.90	0.146	0.154		
F	14.22	15.24	0.560	0.600		
G	1.27	-	0.050	-		

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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