



# **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



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)



**KBP** 





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MAXIMUM RATINGS AND ELECTRICAL CHAR	ACTERIST	ICS (T <sub>A</sub>	(= <b>25</b> °C ∪	ınless of	herwise	noted)			
DADAMETED	SYMBOL	KBP	KBP	KBP	KBP	KBP	KBP	KBP	UNIT
PARAMETER	STIVIBUL	151G	152G	153G	154G	155G	156G	157G	
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 <sub>F(AV)</sub>	1.5						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50					Α		
Rating for fusing (t<8.3mS)	l <sup>2</sup> t	10.3					A <sup>2</sup> s		
Maximum instantaneous forward voltage (Note 1) $I_F$ = 1.5 A	V <sub>F</sub>	1.1						V	
Maximum DC reverse current $T_J$ =25 $^{\circ}$ C at rated DC blocking voltage $T_J$ =125 $^{\circ}$ C	I <sub>R</sub>	10 500			μA				
Typical thermal resistance	R <sub>θjL</sub> R <sub>θjA</sub>	13 40					°C/W		
Operating junction temperature range	T <sub>J</sub>	- 55 to +150					оС		
Storage temperature range	T <sub>STG</sub>	- 55 to +150					οС		

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



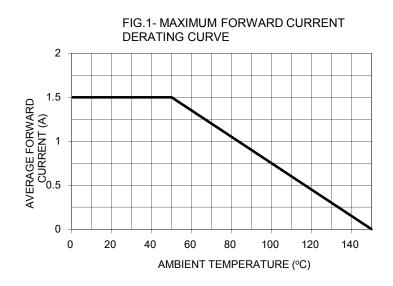
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING	
		CODE			
KBP15xG (Note 1)	C2	Suffix "G"	KBP	25 / TUBE	

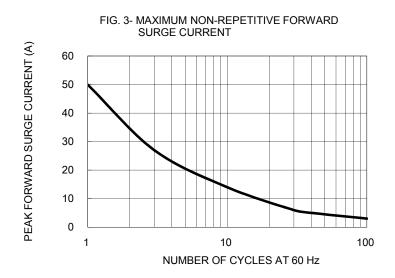
Note 1: "x" defines voltage from 50V (KBP151G) to 1000V (KBP157G)

EXAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
KBP157G C2	KBP157G	C2				
KBP157G C2G	KBP157G	C2	G	Green compound		

## RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)





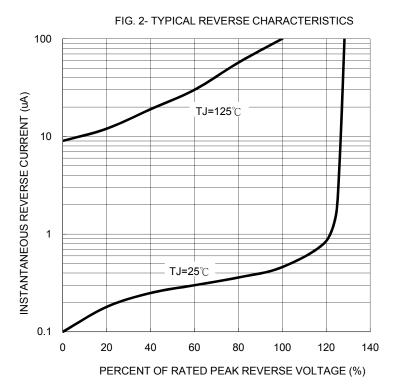


FIG. 4- TYPICAL FORWARD CHARACTERISTICS

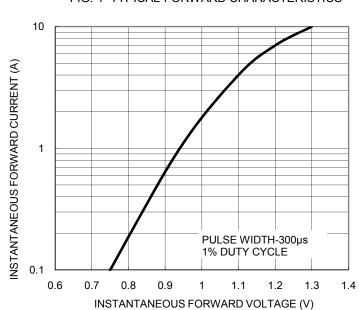
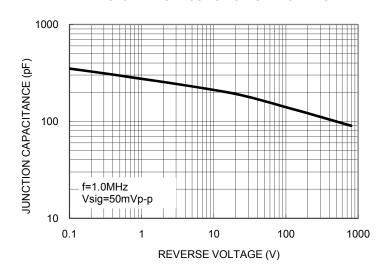
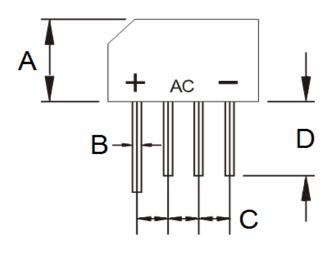


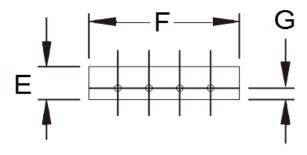


FIG. 5- TYPICAL JUNCTION CAPACITANCE



# PACKAGE OUTLINE DIMENSIONS





DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	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	-	
Е	3.70	3.90	0.146	0.154	
F	14.22	15.24	0.560	0.600	
G	1.27	-	0.050	-	

# MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YW = Date Code

F = Factory Code

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