



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

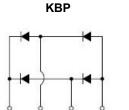
Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test **Polarity:** Polarity as marked on the body

Weight: 1.5 g (approximately)









MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	KBP	КВР	КВР	KBP	KBP	KBP	KBP	UNIT
PARAMETER	STWIBUL	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	٧
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current		1.5						-	Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50						А	
Rating for fusing (t<8.3mS)	I ² t				10.3				A ² s
Maximum instantaneous forward voltage (Note 1) I_F = 1.5 A	V _F	1.1						٧	
$\begin{array}{ll} \mbox{Maximum DC reverse current} & \mbox{T_J=25 $^{\circ}$C} \\ \mbox{at rated DC blocking voltage} & \mbox{T_J=125$^{\circ}$C} \end{array}$	I _R	10 500				μA			
Typical thermal resistance	R _{θjL}		13 40						°C/W
Operating junction temperature range		- 55 to +150						°С	
Storage temperature range	T _{STG}	- 55 to +150						°С	

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



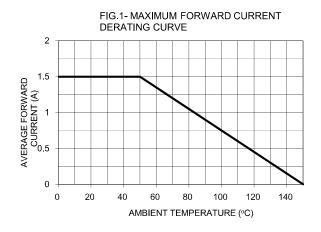
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING		
KBP15xG (Note 1)	C2	Suffix "G"	KBP	25 / TUBE		

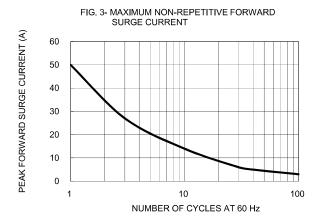
Note 1: "x" defines voltage from 50V (KBP151G) to 1000V (KBP157G)

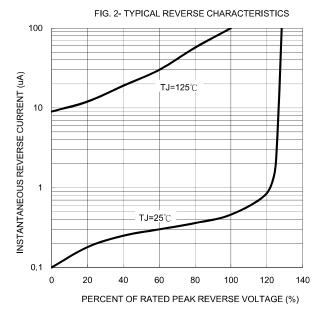
EXAMPLE							
PREFERRED P/N PART NO. PACKING CO		PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
KBP157G C2	KBP157G	C2					
KBP157G C2G	KBP157G	C2	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







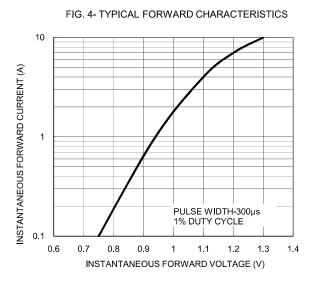
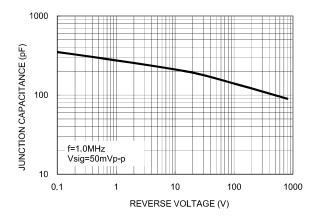
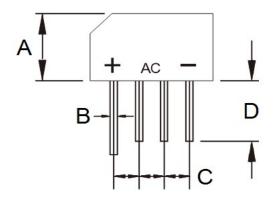


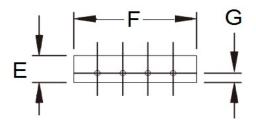


FIG. 5- TYPICAL JUNCTION CAPACITANCE



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	-	
E	3.70	3.90	0.146	0.154	
F	14.22	15.24	0.560	0.600	
G	1.27	-	0.050	-	

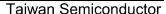
MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YW = Date Code

= Factory Code

Document Number: DS_D1311018





Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or seling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

Document Number: DS_D1311018 Version: D13