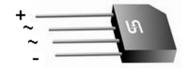




Glass Passivated Bridge Rectifiers

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





KBP



MECHANICAL DATA

Case: Molded plastic body

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: 1.52 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER		KBP	KBP	KBP	KBP	KBP	KBP	KBP	UNIT
PARAIVIL I ER	SYMBOL	101G	102G	103G	104G	105G	106G	107G	CIVIT
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	1 _{F(AV)}				1				Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30				Α			
Rating for fusing (t<8.3mS)	l ² t				3.73				A^2s
Maximum instantaneous forward voltage (Note 1) I _F = 1 A	V _F	1.0				V			
Maximum DC reverse current T _J =25 °C at rated DC blocking voltage T _J =125 °C	I _R	10 500				μΑ			
Typical thermal resistance	$R_{ heta j L} \ R_{ heta j A}$				°C/W				
Operating junction temperature range	T _J			-	55 to +15	50			оС
Storage temperature range	T _{STG}		•	-	55 to +15	50			оС

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



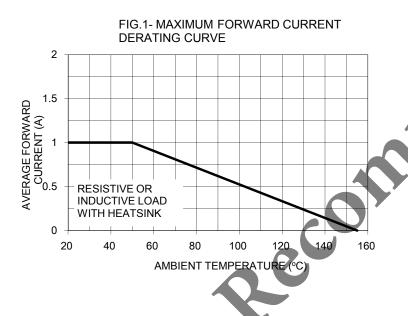
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING		
KBP10xG (Note 1)	C2	Suffix "G"	KBP	25 / TUBE		

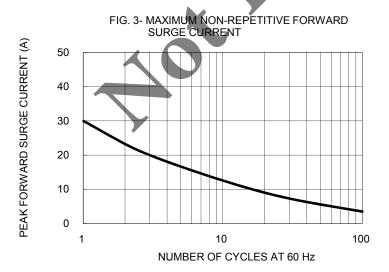
Note 1: "x" defines voltage from 50V (KBP101G) to 1000V (KBP107G)

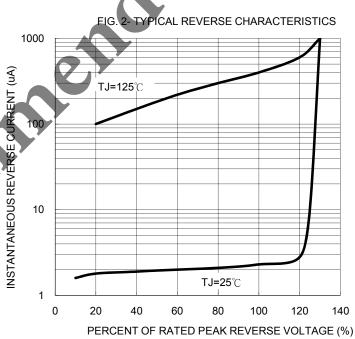
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
KBP107G C2	KBP107G	C2					
KBP107G C2G	KBP107G	C2	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







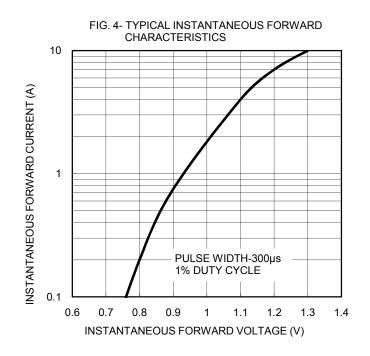
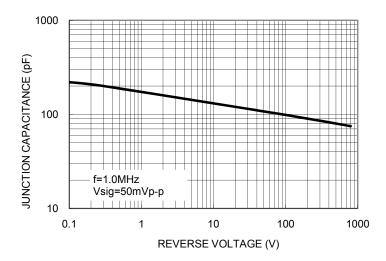
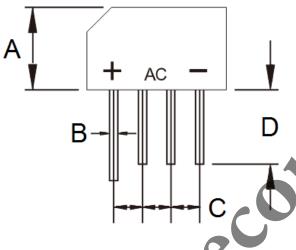




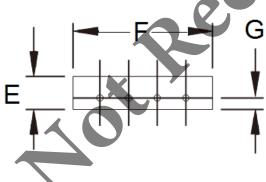
FIG. 5 TYPICAL JUNCTION CAPACITANCE



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 F = Factory Code

Document Number: DS_D1311015





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_D1311015 Version: D13

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taiwan Semiconductor:

KBP101G KBP102G KBP103G KBP104G KBP105G KBP106G KBP107G KBP102G C2