



Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Typical IR less than 0.1µA
- 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



KBU





MECHANICAL DATA

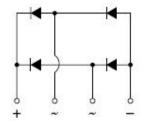
Case: KBU

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test **Mounting torque:** 0.56 Nm max. **Weight:** 7.2 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Unit
PARAIVIETER	STIVIBUL	1001G	1002G	1003G	1004G	1005G	1006G	1007G	
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)}	10						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200				Α			
Rating for fusing (t<8.3ms)	l ² t	166						A ² s	
Maximum instantaneous forward voltage (Note 1) I_F = 5 A I_F = 10 A	V _F				1.0 1.1				V
Maximum DC reverse current T_J =25 °C at rated DC blocking voltage T_J =125 °C	I _R	5 500				μΑ			
Typical junction capacitance per leg	Cj	400				pF			
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	2.2 25			°C/W				
Operating junction temperature range	T _J	- 55 to +150			οС				
Storage temperature range	T _{STG}	- 55 to +150			οС				

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

Note 2: Measured at 1MHz and applied Reverse Voltage of 4.0V D.C.



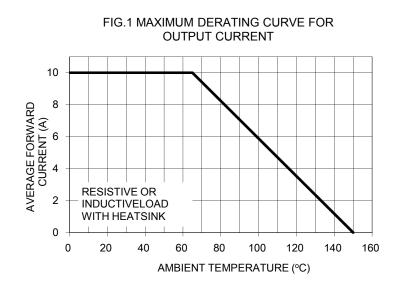
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
KBU100xG (Note 1)	ТО	G	KBU	500 / Tray		

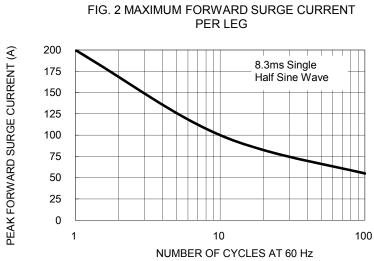
Note 1: "x" defines voltage from 50V (KBU1001G) to 1000V (KBU1007G)

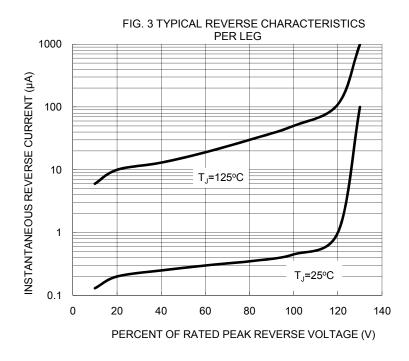
EXAMPLE						
PREFERRED P/N	PREFERRED P/N PART NO. PACKING		PACKING CODE SUFFIX	DESCRIPTION		
KBU1007G T0	KBU1007G	T0				
KBU1007G T0G	KBU1007G	T0	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







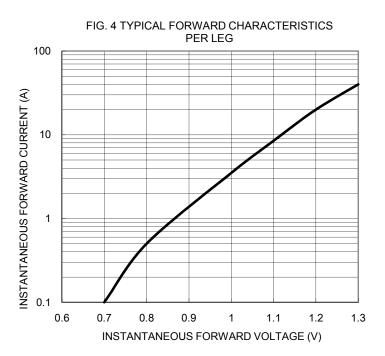
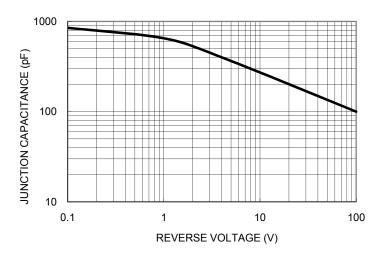


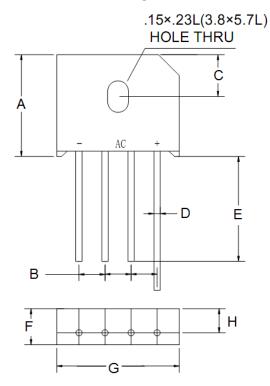


FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS

KBU



F

DIM.	Unit	(mm)	Unit (inch)			
DIN.	Min	Max	Min	Max		
Α	18.8	19.8	0.740	0.780		
В	4.6	5.6	0.181	0.220		
С	8.2 (TYP.)	0.322 (TYP.)			
D	1.2	1.3	0.047	0.051		
Е	20.0	-	0.787	-		
F	6.8	7.1	0.268	0.280		
G	22.7	23.7	0.894	0.933		
Н	4.6	5.0	0.181	0.197		

MARKING DIAGRAM



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

= Factory Code

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KBU1001G KBU1002G KBU1003G KBU1004G KBU1005G KBU1006G KBU1007G