



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

Mol

Me Мо

olding compound, UL flammability classification rating 94V-0	1.	- 1	2.1	
ase P/N with suffix "G" on packing code - green compound (halogen-free)	T '	` /	T	
erminal: Matte tin plated leads, solderable per JESD22-B102	J	ò		ļ
eet JESD 201 class 1A whisker test	+	~	~	-
ounting torque: 0.56 Nm max.				
eight: 7.2 g (approximately)				
	<i>i</i> —	_ ^	_	

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Unit
PARAIVIETER	STIVIBUL	601G	602G	603G	604G	605G	606G	607G	
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)}				6				Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	175				А			
Rating for fusing (t<8.3ms)	l ² t				127				A ² s
Maximum instantaneous forward voltage (Note 1) I_F = 3 A I_F = 6 A	V _F	1.0 1.1				V			
	I _R	5 500				μA			
Typical junction capacitance per leg	Cj				400				pF
Typical thermal resistance	R _{θJC} R _{θJA}	3.1 8.6					°C/W		
Operating junction temperature range	TJ			-	55 to +15	50			оС
Storage temperature range	T _{STG}			-	55 to +15	50			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.

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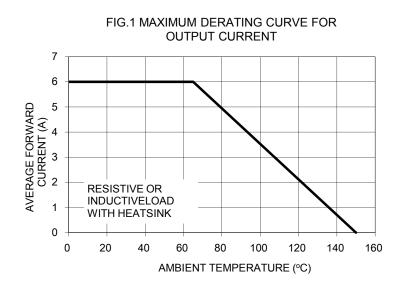
ORDERING INFORMATION							
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING			
KBU60xG (Note 1)	T0	G	KBU	500 / Tray			

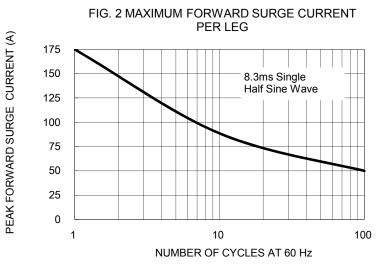
Note 1: "x" defines voltage from 50V (KBU601G) to 1000V (KBU607G)

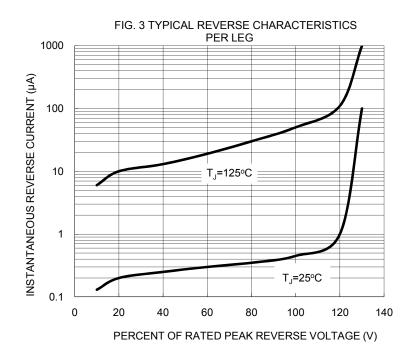
EXAMPLE							
PREFERRED P/N	PART NO.	ART NO. PACKING CODE PACKING SUFF		DESCRIPTION			
KBU607G T0	KBU607G	T0					
KBU607G T0G	KBU607G	T0	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







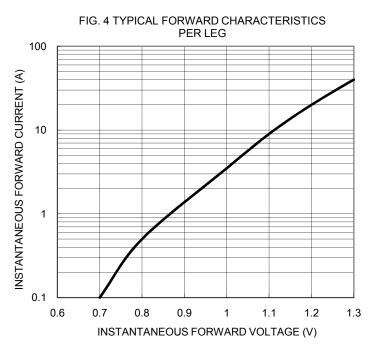
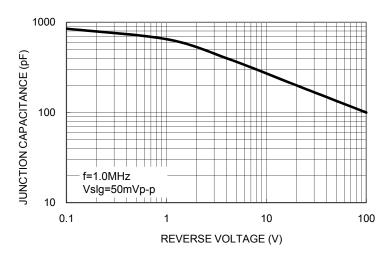
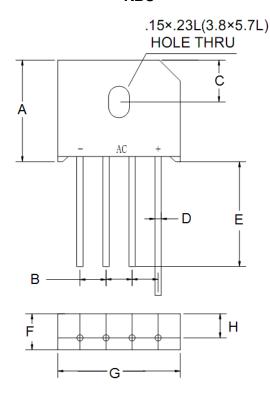




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS KBU



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Min Max		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	
E	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

F = Factory Code

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