

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

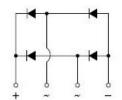
Case: KBU

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
PARAMETER		801G	802G	803G	804G	805G	806G	807G	
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)}	8						Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200				А			
Rating for fusing (t<8.3mS)	l ² t				166				A ² s
Maximum instantaneous forward voltage (Note 1) I_F = 4 A I_F = 8 A	V _F				1.0 1.1				V
Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=125^{\circ}C$	I _R	5 500				μΑ			
oical junction capacitance per leg Cj 400				pF					
Typical thermal resistance	$R_{ heta JC} \ R_{ heta JA}$	3 18					°C/W		
Operating junction temperature range		- 55 to +150					°С		
Storage temperature range		- 55 to +150					оС		

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

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



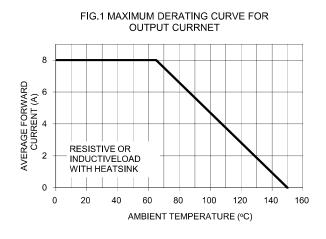
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
KBU80xG (Note 1)	T0	G	KBU	500 / Tray		

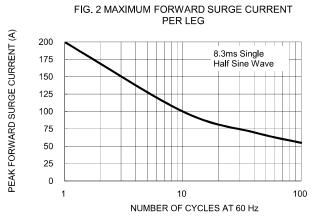
Note 1: "x" defines voltage from 50V (KBU801G) to 1000V (KBU807G)

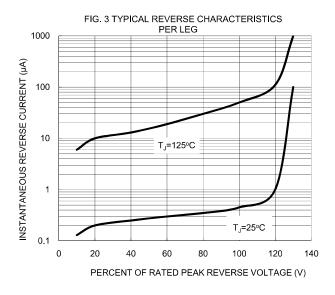
EXAMPLE							
PREFERRED P/N	PART NO. PACKING CODE		PACKING CODE SUFFIX	DESCRIPTION			
KBU807G T0	KBU807G	T0					
KBU807G T0G	KBU807G	T0	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







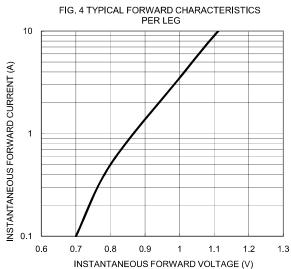
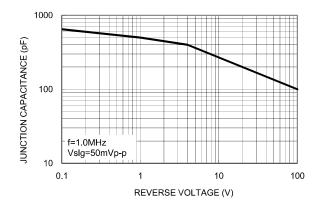
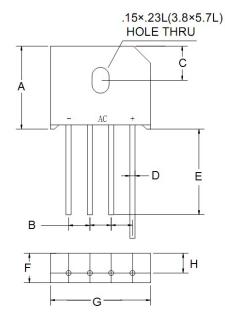




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS KBU



DIM.	Unit	(mm)	Unit (inch)			
DIIVI.	Min	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 F = Factory Code



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