

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

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 401G	KBU 402G	KBU 403G	KBU 404G	KBU 405G	KBU 406G	KBU 407G	Unit
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)}	4					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150					А		
Rating for fusing (t<8.3ms)	l ² t	93					A ² s		
Maximum instantaneous forward voltage (Note 1) $I_F= 2A$ $I_F= 4A$	V _F	Х			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				μA			
Typical junction capacitance per leg	Cj	240					pF		
Typical thermal resistance	R _{θJC} R _{θJA}	4 19				^o C/W			
Operating junction temperature range	TJ	- 55 to +150						°C	
Storage temperature range	T _{STG}	- 55 to +150			°C				

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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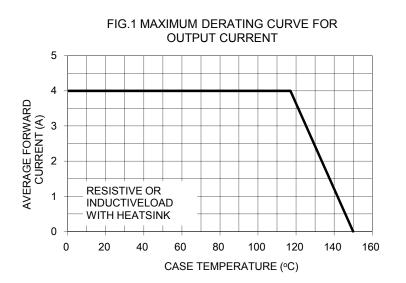
ORDERING INFORMATION						
PART NO.	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING		
KBU40xG (Note 1)	ТО	G	KBU	500 / Tray		

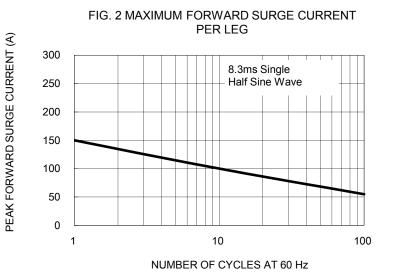
Note 1: "x" defines voltage from 50V (KBU401G) to 1000V (KBU407G)

EXAMPLE							
PREFERRED P/N PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
KBU407G T0	KBU407G	Т0					
KBU407G T0G	KBU407G	Т0	G	Green compound			

RATINGS AND CHARACTERISTICS CURVES

(TA=25 $^{\circ}$ C unless otherwise noted)





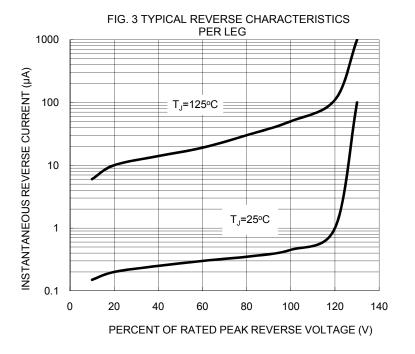
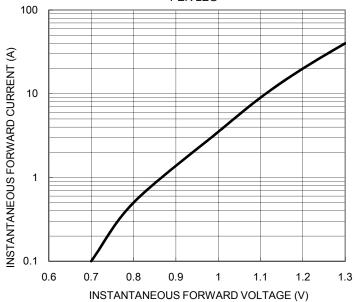


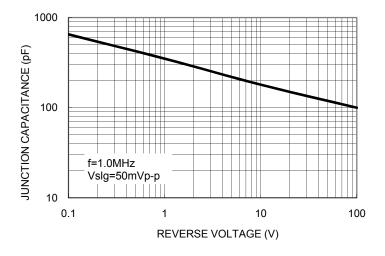
FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG



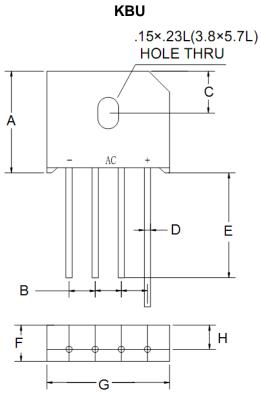


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PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
	Min	Min Max		Мах		
А	18.8	19.8	0.740	0.780		
В	4.6	5.6	0.181	0.220		
С	8.2 (ΓYΡ.)	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



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code



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