

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	KBU	KBU	KBU	KBU	KBU	KBU	Unit
	STMBOL	401G	402G	403G	404G	405G	406G	407G	Om
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					А		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				A			
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	1.0 1.1				V			
Maximum DC reverse current $T_J=25 \ ^{\circ}C$ at rated DC blocking voltage $T_J=125 \ ^{\circ}C$	۱ _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		- 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.



KBU401G thru KBU407G

Taiwan Semiconductor

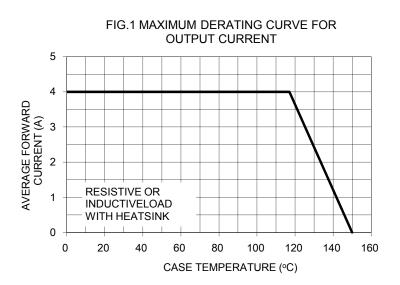
ORDERING	INFORMATION						
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING			
		SUFFIX					
KBU40xG (Note 1)	ТО	G	KBU	500 / Tray			
Note 1. "" defi	Nate 1, Will defines values from EOV (KDU1010) to 1000V (KDU1070)						

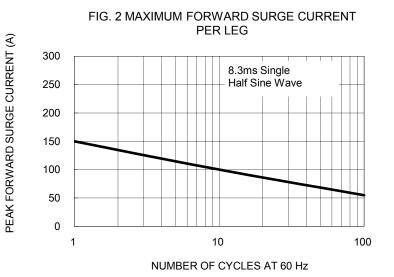
Note 1: "x" defines voltage from 50V (KBU401G) to 1000V (KBU407G)

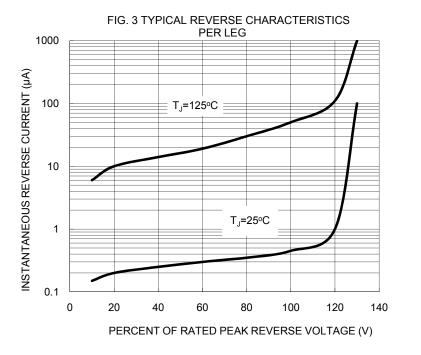
EXAMPLE						
PREFERRED P/N PART NO.		PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION		
KBU407G T0	KBU407G	Т0				
KBU407G T0G	KBU407G	Т0	G	Green compound		

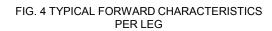
RATINGS AND CHARACTERISTICS CURVES

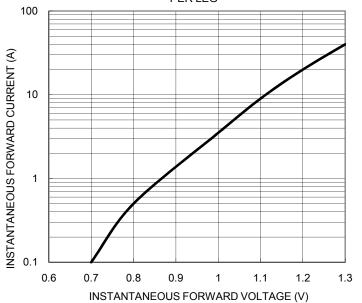
(TA=25 $^{\circ}$ C unless otherwise noted)







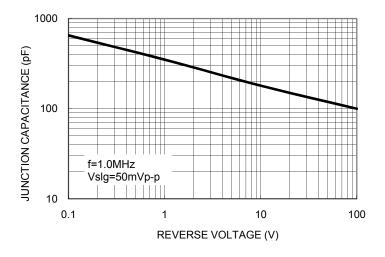






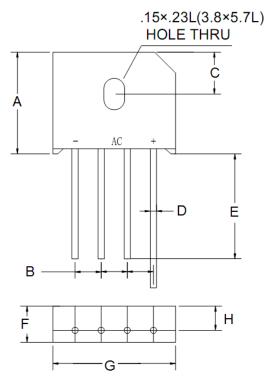
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DIM.	Unit	(mm)	Unit (inch)			
DINI.	Min	Max	Min	Мах		
А	18.8	19.8	0.740	0.780		
В	4.6	5.6	0.181	0.220		
С	8.2 (TYP.)		0.322 (TYP.)			
D	1.2	1.3	0.047	0.051		
Е	20.0	-	0.787	-		
F	6.8	7.1	0.268	0.280		
G	22.7	23.7	0.894	0.933		
Н	4.6	5.0	0.181	0.197		

MARKING DIAGRAM



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



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