

Taiwan Semiconductor

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



KBU





MECHANICAL DATA

Case: KBU

Molding compound, UL flammability classification rating 94V-0 **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test **Mounting torque:** 0.56 N·m max. **Weight:** 7.2 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	KBU 801G	KBU 802G	KBU 803G	KBU 804G	KBU 805G	KBU 806G	KBU 807G	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)}				8				А
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			μA				
Typical junction capacitance per leg	Cj	400			pF				
Typical thermal resistance	R _{θJC} R _{θJA}	3 18		^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.

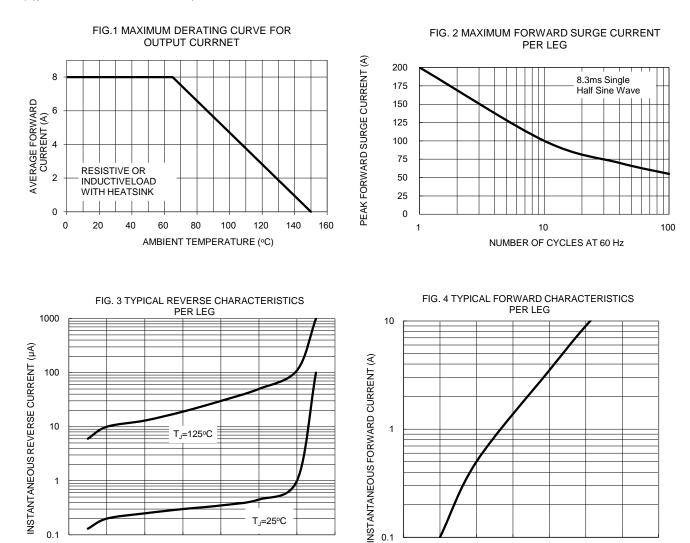


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ORDERING INFORMATION							
ORDERING CODE	PACKAGE	PACKING					
KBU801G T0	KBU	500 / Trays					
KBU802G T0	KBU	500 / Trays					
KBU803G T0	KBU	500 / Trays					
KBU804G T0	KBU	500 / Trays					
KBU805G T0	KBU	500 / Trays					
KBU806G T0	KBU	500 / Trays					
KBU807G T0	KBU	500 / Trays					

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



0.1

0.6

0.7

0.8

0.9

1

INSTANTANEOUS FORWARD VOLTAGE (V)

1.1

0

1.3

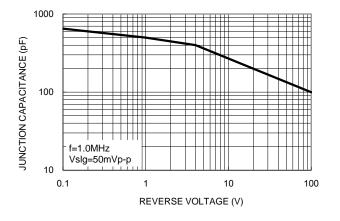
1.2



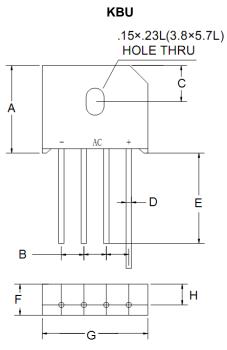
KBU801G thru KBU807G

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FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)			
DINI.	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		
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



- = Specific Device Code
- = Date Code
- = Factory Code



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