

Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- High case dielectric strength
- Typical IR less than 0.1 μ A
- 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

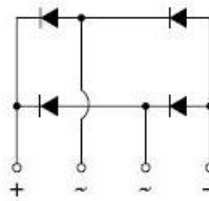
Case: KBU

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 601G	KBU 602G	KBU 603G	KBU 604G	KBU 605G	KBU 606G	KBU 607G	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)}	6							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	175							A
Rating for fusing (t<8.3ms)	I 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
Maximum DC reverse current at rated DC blocking voltage T _J =25 °C T _J =125°C	I _R	5 500							μ A
Typical junction capacitance per leg	C _j	400							pF
Typical thermal resistance	R _{θJC} R _{θJA}	3.1 8.6							°C/W
Operating junction temperature range	T _J	- 55 to +150							°C
Storage temperature range	T _{STG}	- 55 to +150							°C

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

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

ORDERING INFORMATION

ORDERING CODE	PACKAGE	PACKING
KBU601G T0	KBU	500 / Trays
KBU602G T0	KBU	500 / Trays
KBU603G T0	KBU	500 / Trays
KBU604G T0	KBU	500 / Trays
KBU605G T0	KBU	500 / Trays
KBU606G T0	KBU	500 / Trays
KBU607G T0	KBU	500 / Trays

RATINGS AND CHARACTERISTICS CURVES

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

FIG. 1 MAXIMUM DERATING CURVE FOR OUTPUT CURRENT

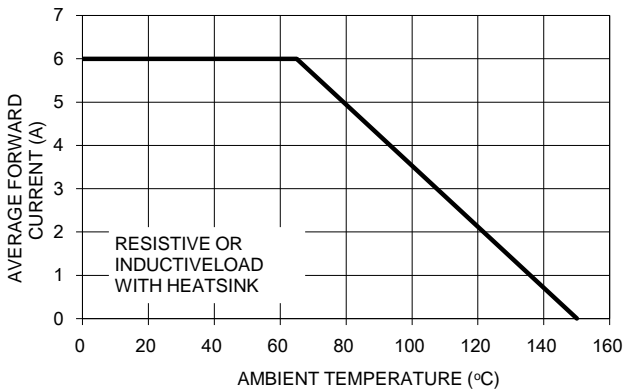


FIG. 2 MAXIMUM FORWARD SURGE CURRENT PER LEG

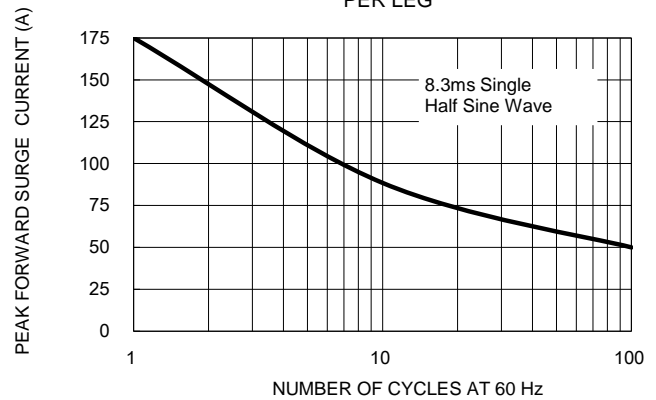


FIG. 3 TYPICAL REVERSE CHARACTERISTICS PER LEG

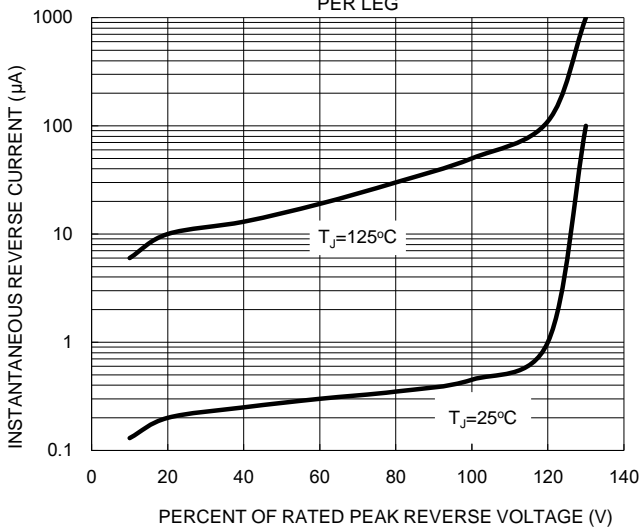


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG

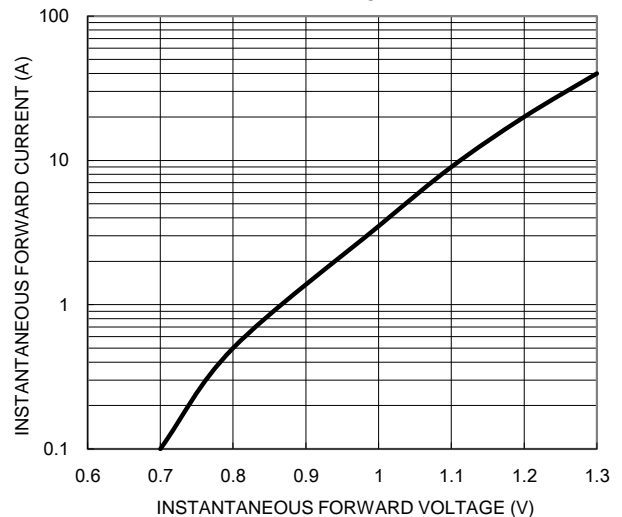
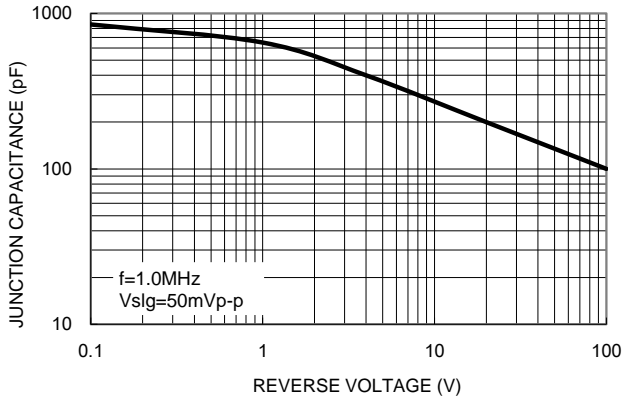
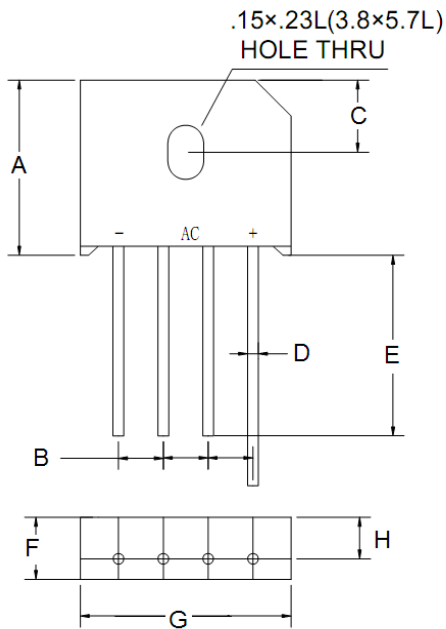


FIG. 5 TYPICAL JUNCTION CAPACITANCE



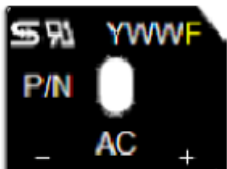
PACKAGE OUTLINE DIMENSIONS

KBU



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	18.8	19.8	0.740	0.780
B	4.6	5.6	0.181	0.220
C	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
H	4.6	5.0	0.181	0.197

MARKING DIAGRAM



- P/N = Specific Device Code
- YWW = Date Code
- F = Factory Code

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