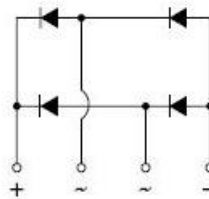


Glass Passivated Bridge Rectifiers

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 ($T_A=25^{\circ}\text{C}$ 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							A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	150							A
Rating for fusing ($t < 8.3\text{ms}$)	I^2t	93							A^2s
Maximum instantaneous forward voltage (Note 1) $I_F = 2\text{A}$ $I_F = 4\text{A}$	V_F				1.0 1.1				V
Maximum DC reverse current at rated DC blocking voltage $T_J = 25^{\circ}\text{C}$ $T_J = 125^{\circ}\text{C}$	I_R				5 500				μA
Typical junction capacitance per leg	C_j				240				pF
Typical thermal resistance	$R_{\theta JC}$ $R_{\theta JA}$				4 19				$^{\circ}\text{C/W}$
Operating junction temperature range	T_J				- 55 to +150			$^{\circ}\text{C}$	
Storage temperature range	T_{STG}				- 55 to +150			$^{\circ}\text{C}$	

Note 1: Pulse Test with $PW=300\mu\text{s}$, 1% Duty Cycle

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

ORDERING INFORMATION		
ORDERING CODE	PACKAGE	PACKING
KBU401G T0	KBU	500 / Trays
KBU402G T0	KBU	500 / Trays
KBU403G T0	KBU	500 / Trays
KBU404G T0	KBU	500 / Trays
KBU405G T0	KBU	500 / Trays
KBU406G T0	KBU	500 / Trays
KBU407G 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

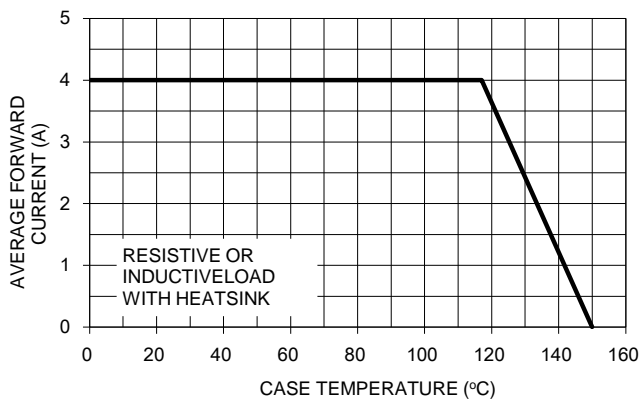


FIG. 2 MAXIMUM FORWARD SURGE CURRENT PER LEG

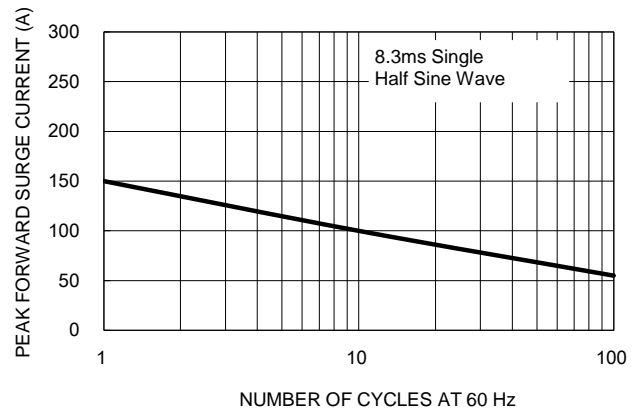


FIG. 3 TYPICAL REVERSE CHARACTERISTICS PER LEG

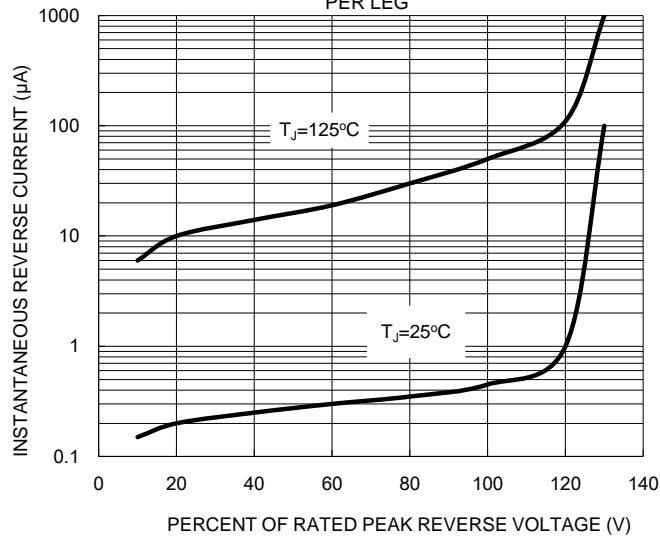


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER LEG

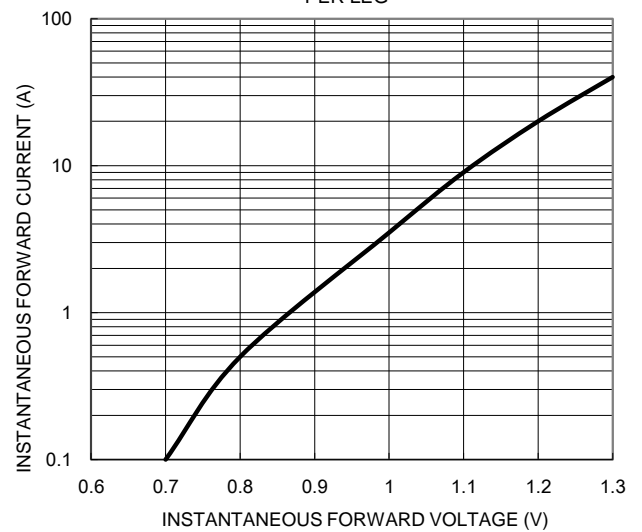
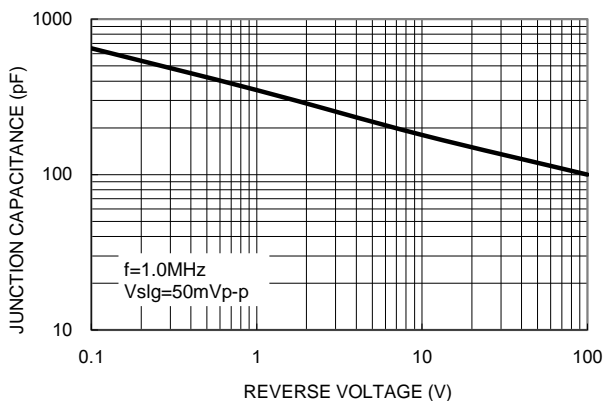
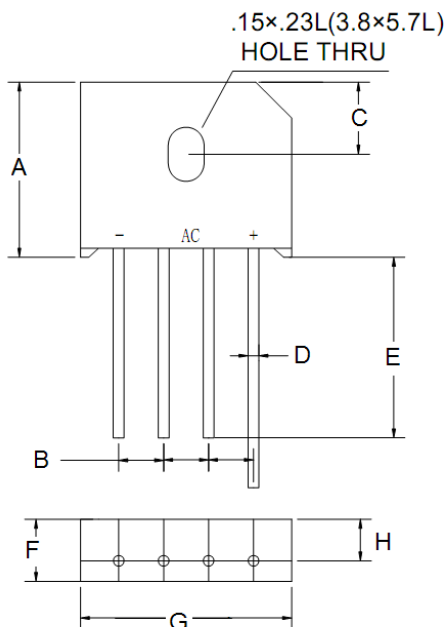


FIG. 5 TYPICAL JUNCTION CAPACITANCE



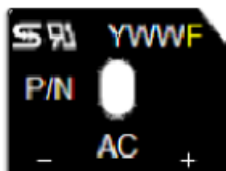
PACKAGE OUTLINE DIMENSIONS

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
- YWWF = Date Code
- F = Factory Code

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