

Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC


KBL


MECHANICAL DATA

Case: KBL

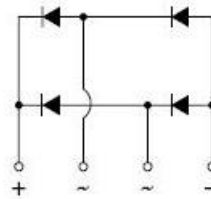
Molding compound, UL flammability classification rating 94V-0

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

Polarity: Polarity as marked on the body

Weight: 5.6 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	KBL 601G	KBL 602G	KBL 603G	KBL 604G	KBL 605G	KBL 606G	KBL 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 ($t < 8.3\text{ms}$)	I^2t	127							A^2s
Maximum instantaneous forward voltage (Note 1) $I_F = 3\text{ A}$ $I_F = 6\text{ A}$	V_F	1.0 1.1							V
Maximum DC reverse current at rated DC blocking voltage	I_R	10 500							μA
Typical thermal resistance	$R_{\theta JL}$	7.5							$^\circ\text{C/W}$
	$R_{\theta JA}$	13							
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

ORDERING INFORMATION

ORDERING CODE	PACKAGE	PACKING
KBL601G T0	KBL	500 / Trays
KBL602G T0	KBL	500 / Trays
KBL603G T0	KBL	500 / Trays
KBL604G T0	KBL	500 / Trays
KBL605G T0	KBL	500 / Trays
KBL606G T0	KBL	500 / Trays
KBL607G T0	KBL	500 / Trays

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

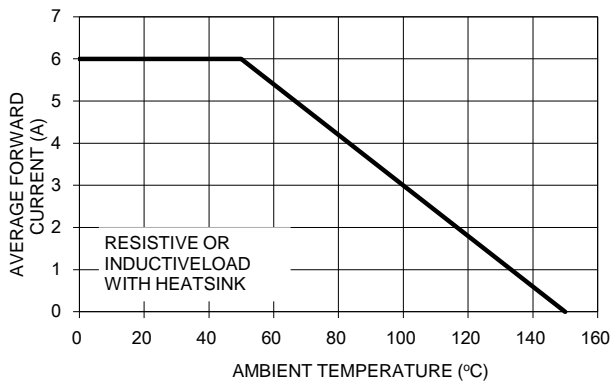


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

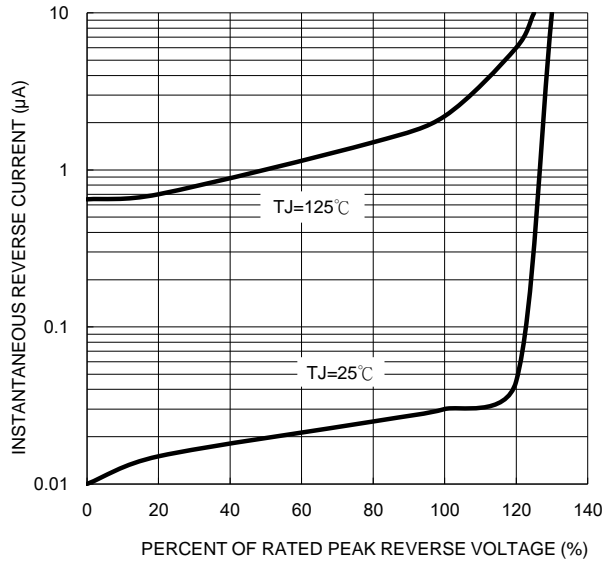


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

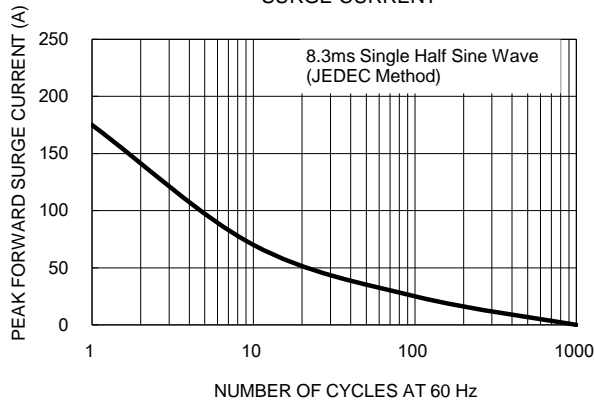


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

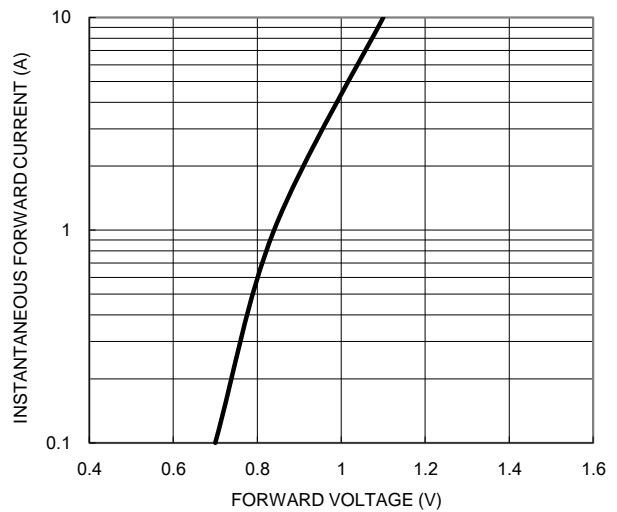
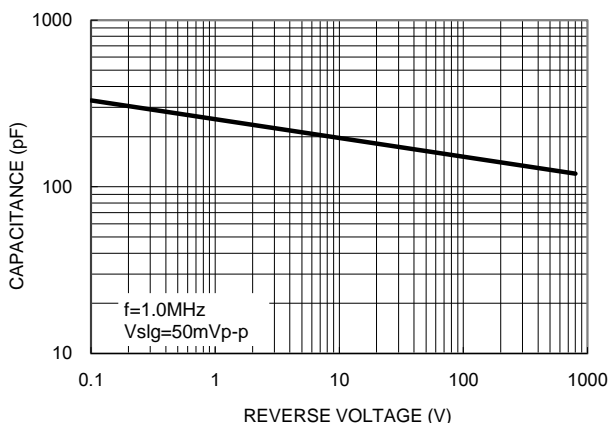
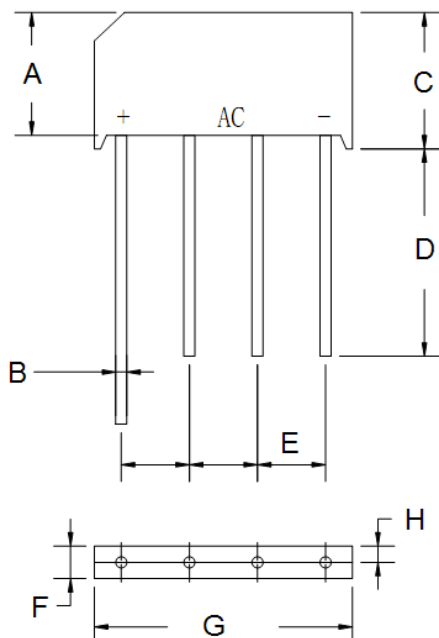


FIG. 5 TYPICAL JUNCTION CAPACITANCE

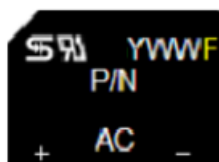


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	13.70	14.70	0.539	0.579
B	1.20	1.30	0.047	0.051
C	15.20	16.30	0.598	0.642
D	19.00	-	0.748	-
E	4.60	5.60	0.181	0.220
F	5.50	6.50	0.217	0.256
G	18.50	19.50	0.728	0.768
H	2.1 (TYP)		0.083 (TYP)	

MARKING DIAGRAM



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

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [Taiwan Semiconductor](#) manufacturer:

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [GBJ1504-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU6B-E3/45](#) [GSIB680-E3/45](#) [DB101-BP](#)
[DF01](#) [DF10SA-E345](#) [KBPC50-10S](#) [RS405GL-BP](#) [G5SBA60-E3/51](#) [GBU10J-BP](#) [GBU6M](#) [GBU8D-BP](#) [GBU8J-BP](#) [GSIB1520-E3/45](#)
[2KBB10](#) [36MB140A](#) [TB102M](#) [MB1510](#) [MB258](#) [MB6M-G](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP501W-BP](#) [BR101-BP](#)
[BR84DTP204](#) [BU2008-E3/51](#) [36MB100A](#) [KBPC10/15/2501WP](#) [KBPC25-02](#) [VS-2KBB60](#) [DF06SA-E345](#) [DF1510S](#) [VS-40MT160PAPBF](#)
[W02M](#) [GBL02-E3/45](#) [GBU4G-BP](#) [GBJ2506-BP](#) [GBU6B-E3/51](#) [GSIB15A80-E3/45](#) [DB104-BP](#)