



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
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: KBL

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102

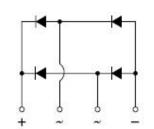
Meet JESD 201 class 1A whisker test **Polarity:** Polarity as marked on the body

Weight: 5.6 g (approximately)











MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°ℂ unless otherwise noted)									
PARAMETER	SYMBOL	KBL	KBL	KBL	KBL	KBL	KBL	KBL	Unit
PARAIVIETER	STIVIBOL	601G	602G	603G	604G	605G	606G	607G	
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							Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	175				Α			
Rating for fusing (t<8.3ms)	l ² t	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
$\begin{array}{ll} \text{Maximum DC reverse current} & \text{T_J=25 °C} \\ \text{at rated DC blocking voltage} & \text{T_J=125°C} \end{array}$	I _R	10 500				μA			
Typical thermal resistance	$R_{ heta JL} \ R_{ heta JA}$	7.5 13			°C/W				
Operating junction temperature range	T _J	- 55 to +150			οС				
Storage temperature range	T _{STG}	- 55 to +150			οС				

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

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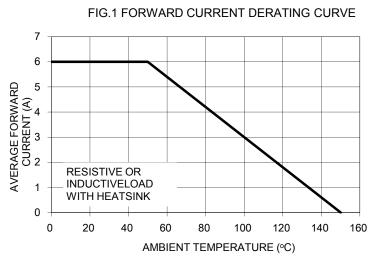
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING		
KBL60xG (Note 1)	ТО	Suffix "G"	KBL	500 / Tray		

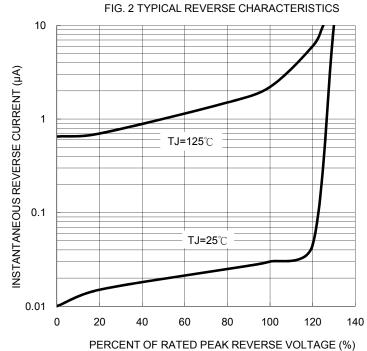
Note 1: "x" defines voltage from 50V (KBL601G) to 1000V (KBL607G)

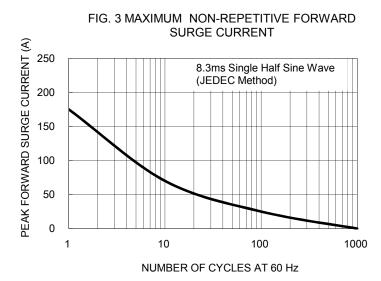
EXAMPLE						
PREFERRED P/N	PREFERRED P/N PART NO. PACKING		GREEN COMPOUND CODE	DESCRIPTION		
KBL607G T0	KBL607G	T0				
KBL607G T0G	KBL607G	T0	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







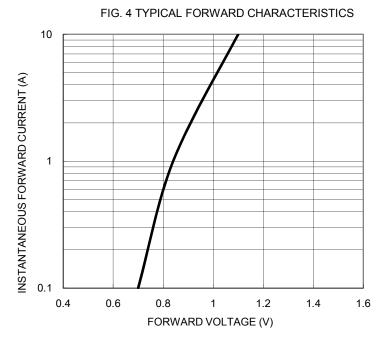
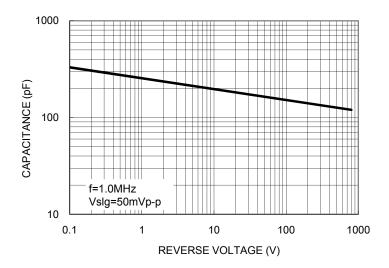
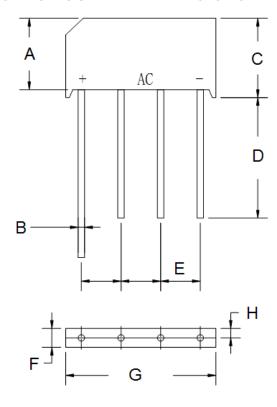




FIG. 5 TYPICAL JUNCTION CAPACITANCE



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit ((mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Max	
Α	13.70	14.70	0.539	0.579	
В	1.20	1.30	0.047	0.051	
С	15.20	16.30	0.598	0.642	
D	19.00	-	0.748	-	
Е	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	
Н	2.1 (TYP)		0.083 (TYP)		

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code
F = Factory Code

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<u>KBL601G KBL602G KBL603G KBL604G KBL605G KBL605G KBL607G KBL607G T0 KBL607G T0 KBL605G T</u>