

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 $^{\circ}$ C unless otherwise noted)									
	CYMDOI	KBL KBL		KBL KBL	KBL	KBL	KBL	KBL	11
PARAMETER	SYMBOL	401G	402G	403G	404G	405G	406G	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				А
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150				А			
Rating for fusing (t<8.3mS)	l ² t				93				A ² s
Maximum instantaneous forward voltage (Note 1) I _F = 2A I _F = 4A	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	10 500				μA			
Typical thermal resistance	R _{θJL} R _{θJA}	2.4 19		^o C/W					
Operating junction temperature range	TJ	- 55 to +150			Oo				
Storage temperature range	T _{STG}	- 55 to +150			OO				

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



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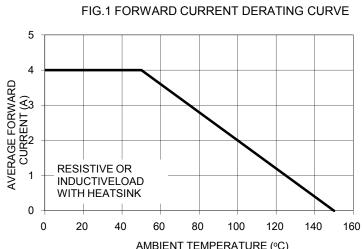
ORDERING INFORMATION							
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING			
		CODE					
KBL40xG (Note 1)	ТО	Suffix "G"	KBL	500 / Tray			

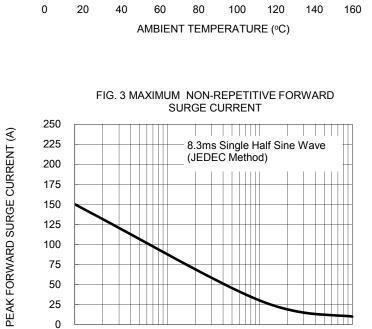
Note 1: "x" defines voltage from 50V (KBL401G) to 1000V (KBL407G)

EXAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
KBL407G T0	KBL407G	Т0				
KBL407G T0G	KBL407G	Т0	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

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





10

100

NUMBER OF CYCLES AT 60 Hz

1000

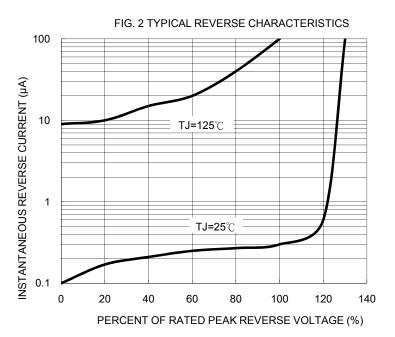
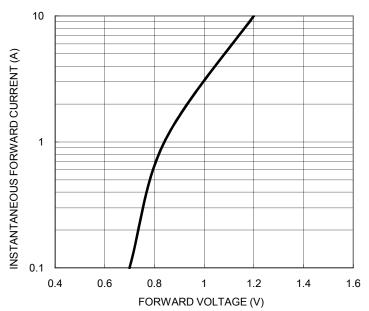


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

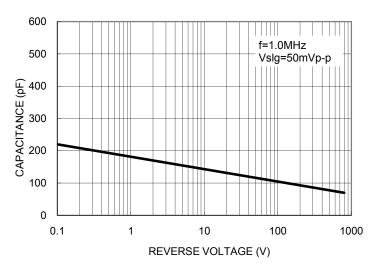


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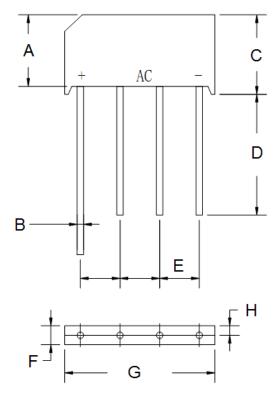


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PACKAGE OUTLINE DIMENSIONS



P/N

YWW

G

F

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

MARKING DIAGRAM



- = Specific Device Code
 - = Green Compound
 - = Date Code
- = Factory Code



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