



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

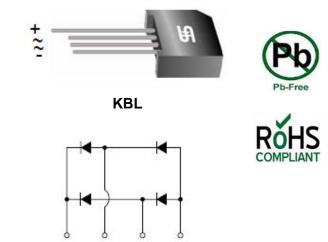
MECHANICAL DATA

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
		401G	402G	403G	404G	405G	406G	407G	
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				Α
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
$\begin{array}{ll} \text{Maximum DC reverse current} & \text{T_J=25 °C} \\ \text{at rated DC blocking voltage} & \text{T_J=125°C} \end{array}$	I _R	10 500			μA				
Typical thermal resistance	$R_{ hetaJL}$ $R_{ hetaJA}$	2.4 19		°C/W					
Operating junction temperature range	TJ	- 55 to +150			оС				
Storage temperature range	T _{STG}	- 55 to +150 °C			оС				

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

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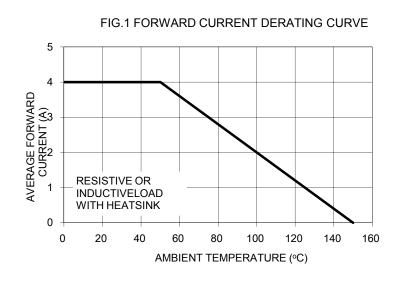
ORDERING INFORMATION						
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING		
		CODE				
KBL40xG (Note 1)	ТО	Suffix "G"	KBL	500 / Tray		

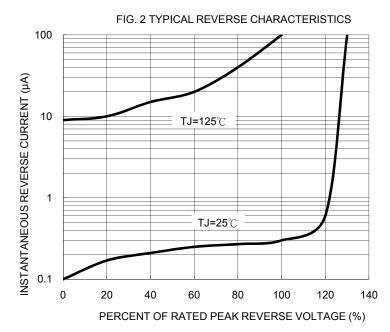
Note 1: "x" defines voltage from 50V (KBL401G) to 1000V (KBL407G)

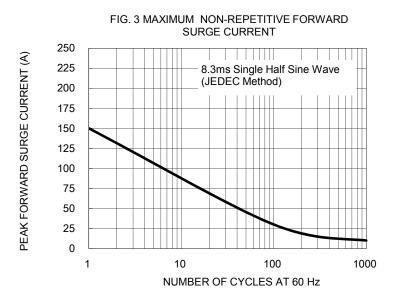
EXAMPLE						
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
KBL407G T0	KBL407G	T0				
KBL407G T0G	KBL407G	T0	G	Green compound		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







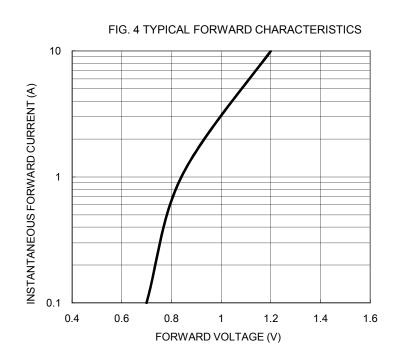
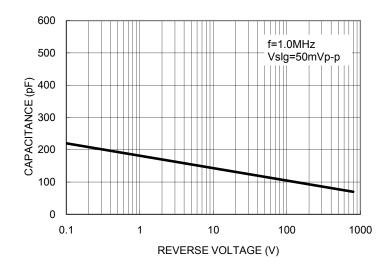
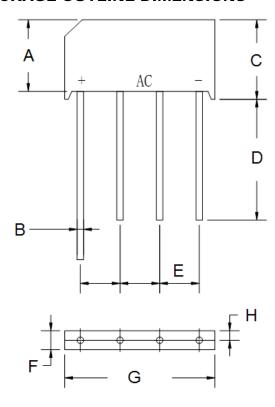




FIG. 5 TYPICAL JUNCTION CAPACITANCE



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	-		
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



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

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KBL401G KBL402G KBL403G KBL404G KBL405 KBL405G KBL406G KBL407G KBL402G T0 KBL401G T0