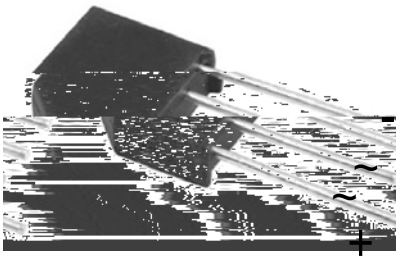
KBL6005 THRU KBL610

RoHS COMPLIANT

Bridge Rectifiers



Features

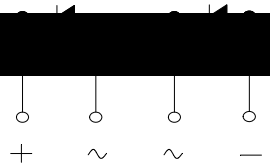
- UL reco e #E230084
- Glass p chip junction
- Ideal fo rcuit boards
- High su t capability
- Solder max. 7 s, per JESD 22-B106

Typical A ions

General p e in AC/DC bridge full wave rectification for switch supply, home appliances, office equipmen al automation applications.

Mechani a

- **Packa**
- **Termin** ated leads, solderable per J-STD- ESD22-B102
- **Polarity** ed on body



■ **Maximum Ratings** (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	KBL6005	KBL602	KBL604	KBL606	KBL608	KBL610
Device marking code								
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	ϡ Ş I M′ I p` MN I ₦ I D T p β 4					

urrent Squared Time 1ms≤t≤8.3ms, Tj=25 ,Rating of per diode	I^2t	A^2S		76
orage temperature	T_{stg}			-55 ~ +150
nction temperature	T_j			-55 ~ +150

Electrical Characteristics (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610
Maximum instantaneous orward voltage drop per diode	V_F	V	I_{FM}=3.0A				1.0			
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25				5			
			T_j=125				100			
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				36			

■ Thermal Characteristics (T_a=25 Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	KBL6005	KBL601	KBL602	KBL604	KBL606	KBL608	KBL610
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	/W	25						
	Between junction and lead	$R_{\theta J-L}$		13						
	Between junction and case	$R_{\theta J-C}$		3.5						

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
KBL6005 ~ KBL610	A1	Approximate 4.54	500	500	4000	Paper Box

■ Characteristics (Typical)

FIG1:Io-Tc Curve

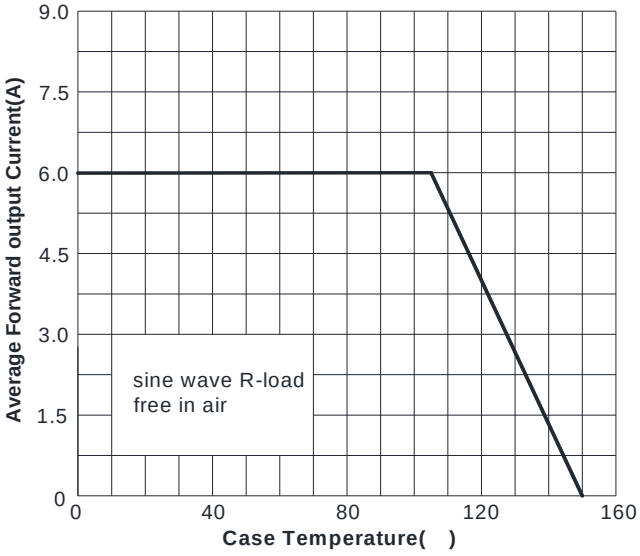


FIG2:Surge Forward Current Capability

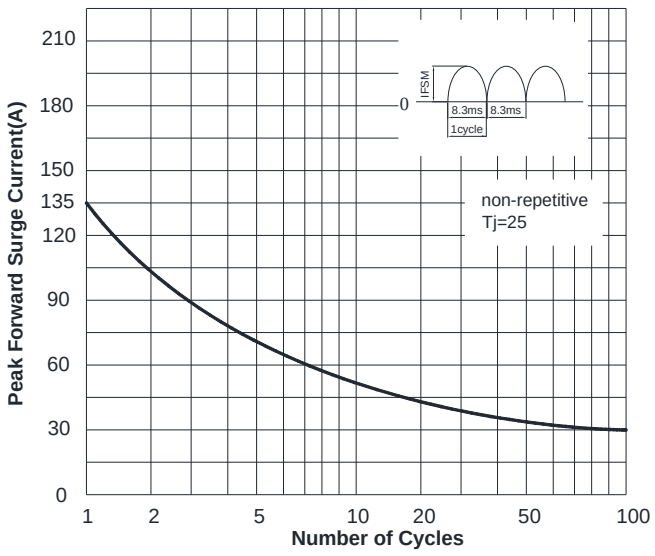


FIG3: Typical Forward Voltage

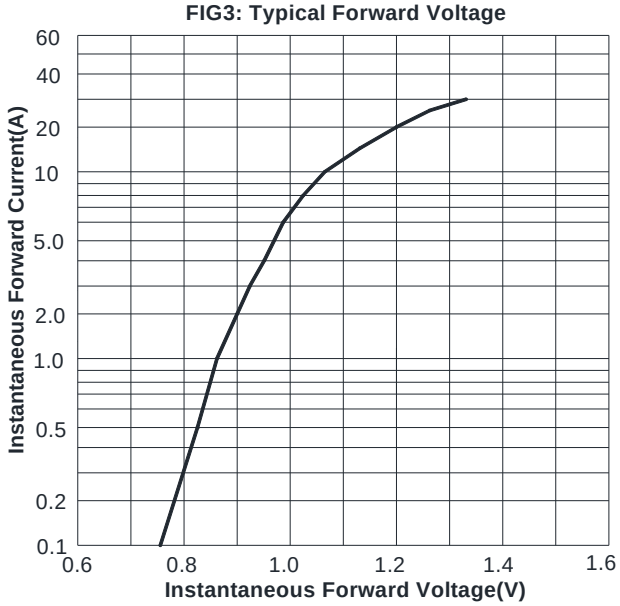
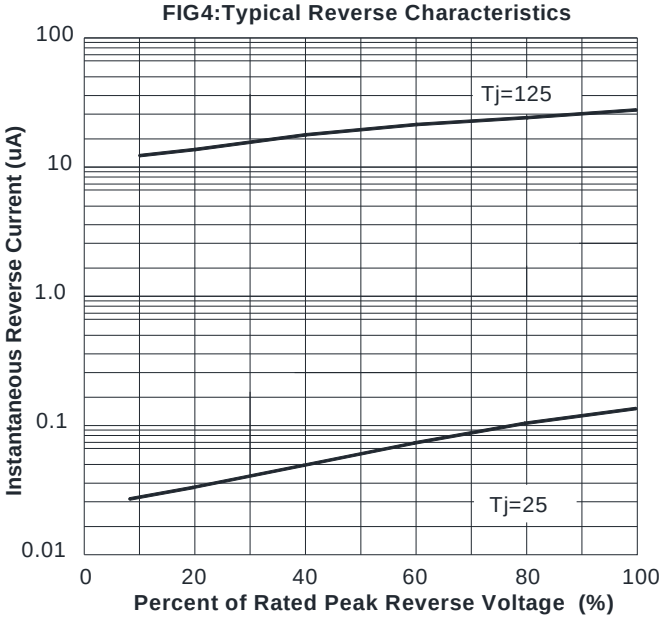
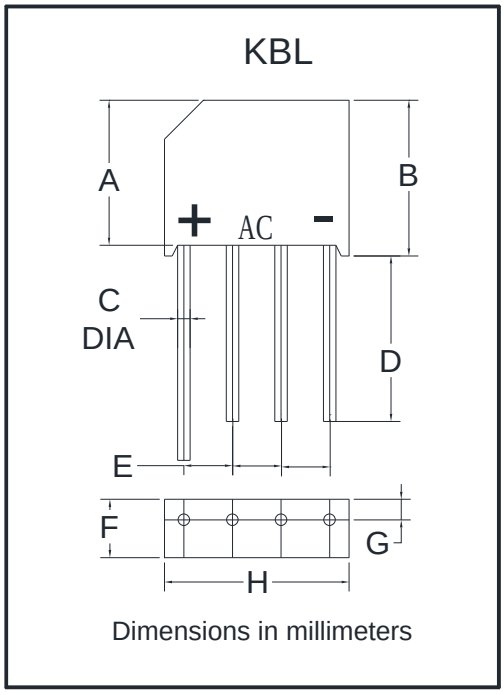


FIG4:Typical Reverse Characteristics



■ Outline Dimensions



KBL		
Dim	**Min**	**Max**
A	13.7	15.7
B	15.2	16.3
C	1.2	1.3
D	16	/
E	4.6	5.6
F	5.5	6.5
G	1.8	2.4
H	18.5	19.5

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