

KBL6005 THRU KBL610

Green Products

KBL6005 THRU KBL610 GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

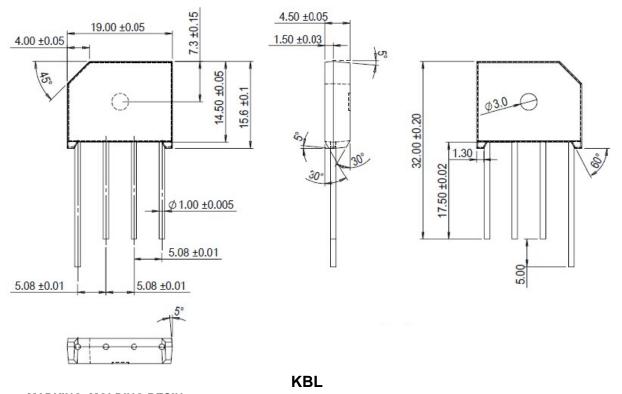
Features:

- Glass passivated chip junction
- Reliable low cost construction utilizing molded plastic technique
- Ideal for printed circuit board
- Low forward voltage drop
- Low reverse leakage current
- High surge current capability

Mechanical Data:

- Case: Molded plastic, KBL
- Epoxy: UL 94V-O rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any
- Weight: 0.16ounce, 4.6gram

Mechanical Dimensions: In mm



MARKING, MOLDING RESIN Marking for Type Number, 1st row SSG YYWWL, 2nd row Type Number Where YY is the manufacture year WW is the manufacture week code L is the wafer's Lot Number

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Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings:

Type Number	Symbol	KBL 6005	KBL 601	KBL 602	KBL 604	KBL 606	KBL 608	KBL 610	Unit
Maximum Recurrent Peak Reverse Voltage Maximum DC Blocking Voltage	$V_{RRM} \ V_{DC}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current at T_c =110 $^{\circ}$ C	Ιο	6.0							А
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150							А

Electrical Characteristics:

Type Number	Symbol	KBL 6005	KBL 601	KBL 602	KBL 604	KBL 606	KBL 608	KBL 610	Unit
Maximum Forward Voltage at 3.0A DC and 25℃	V_{F}	1.0							V
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I _{RM}	5.0 500							μA
Typical Junction Capacitance (Note 1)	C」	80							pF

Thermal-Mechanical Specifications:

Type Number	Symbol	KBL 6005	KBL 601	KBL 602	KBL 604	KBL 606	KBL 608	KBL 610	Unit
Typical Thermal Resistance (Note 2)	$R_{ extsf{ heta}JC}$	1.5							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C
Case Style	KBL								

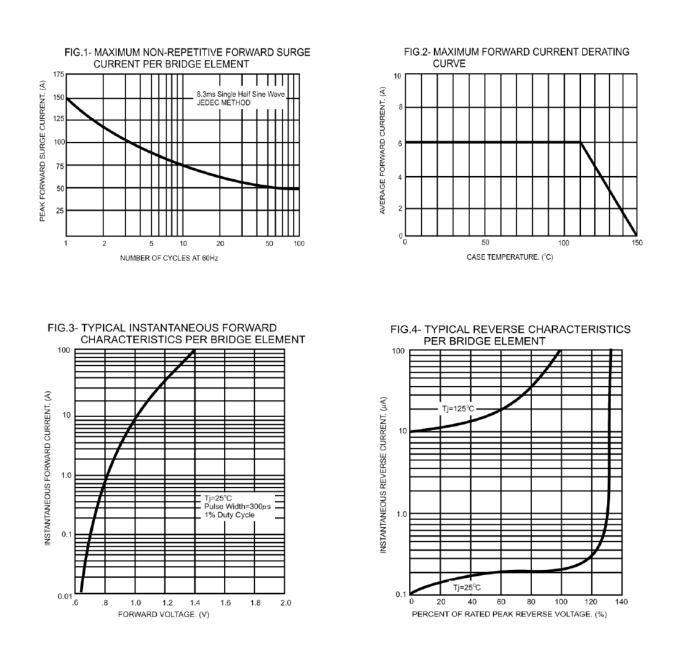
Note: 1- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Case with Device Mounted on 75mm x 75mm x 1.6mm C u Plate Heatsink.



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