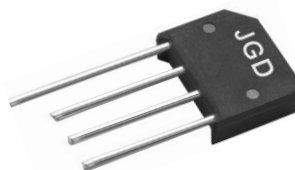


Features

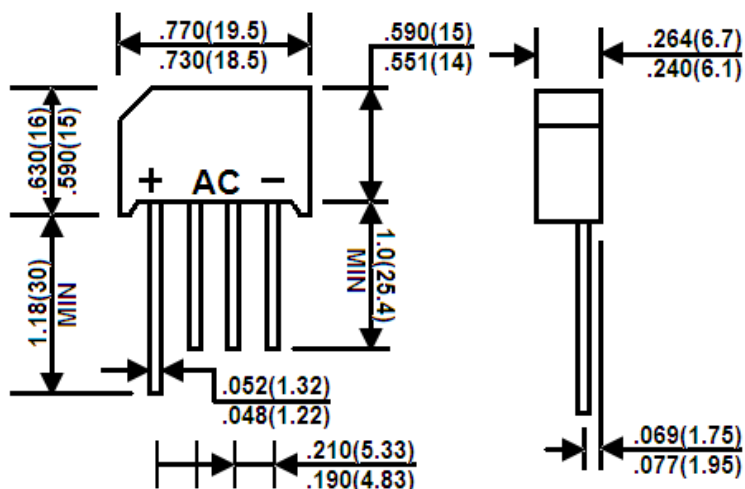
- * Ideal for printed circuit board
- * High surge current capability
- * Reliable low cost construction
- * Leads solderable per MIL-STD-202, method 208



RoHS
COMPLIANT

Package Outline Dimensions in inches (millimeters)

KBL:



Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbols	KBL 400G	KBL 401G	KBL 402G	KBL 404G	KBL 406G	KBL 408G	KBL 410G	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=50^\circ\text{C}$	$I_{F(AV)}$	4.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	120							A
Maximum Forward Voltage Drop per element at 2.0A	V_F	1.0							V
Maximum Reverse Current @ $T_A=25^\circ\text{C}$ at Rated D.C Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	5.0 500							μA
Typical thermal resistance per leg (Note1)	$R_{\theta JA}$	19							$^\circ\text{C}$
(Note2)	$R_{\theta JL}$	2.4							/W
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

- Note:
1. Thermal resistance from junction to ambient with units mounted on 3.0×3.0×0.11" thick (7.5×7.5×0.3cm) Al. plate.
 2. Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375" (9.5mm) lead length and 0.5×0.5" (12×12mm) copper pads.

Ratings and Characteristic Curves

FIG.1 – MAXIMUM NON – REPETITIVE FORWARD SURGE CURRENT – PER ELEMENT

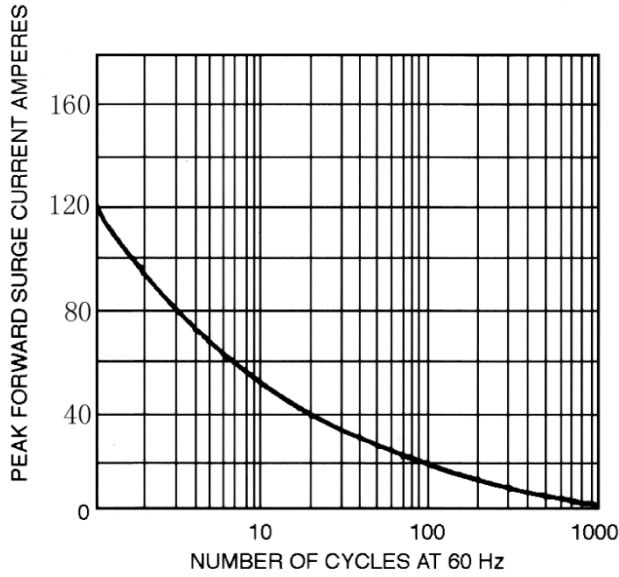


FIG.2 – OUTPUT RECTIFIED CURRENT DERATING CURVE

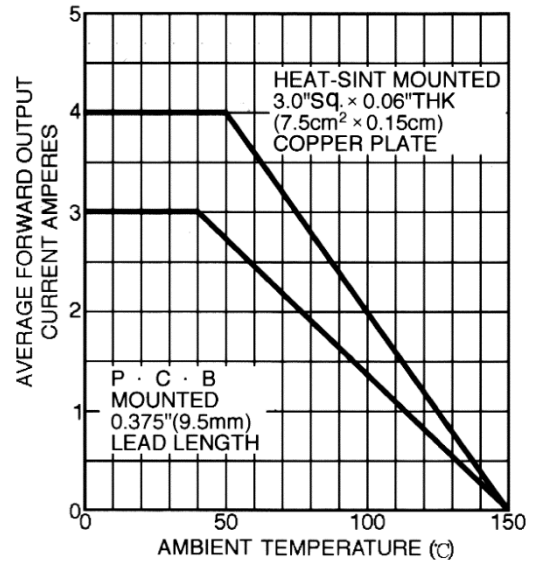


FIG.3 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT

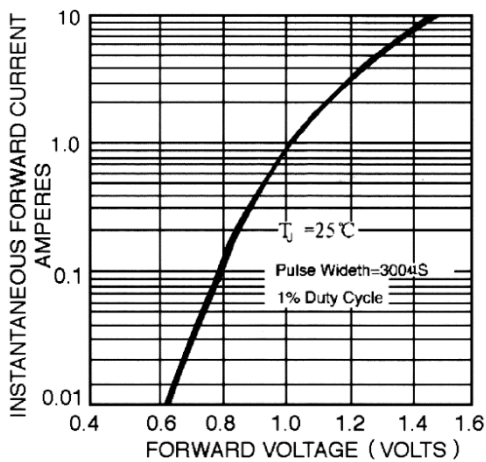
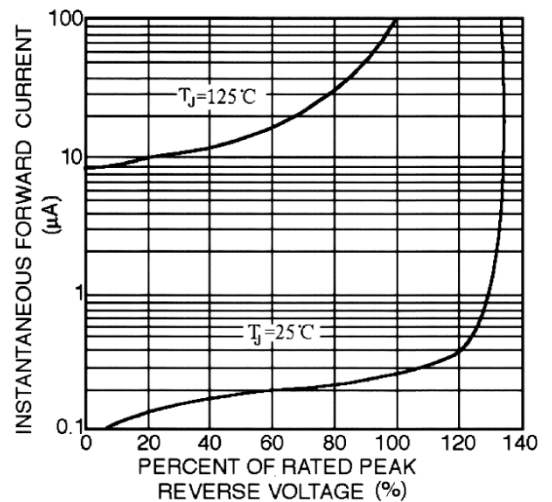


FIG.4 – TYPICAL REVERSE CHARACTERISTICS – PER ELEMENT





KBL400G THRU KBL410G

Single Phase 4.0 Amps. Glass Passivated Bridge Rectifiers

Ordering Information

Part No.	Package	Packing
KBL400G~KBL410G	KBL	0.4K/Tray