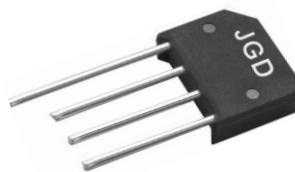


Features

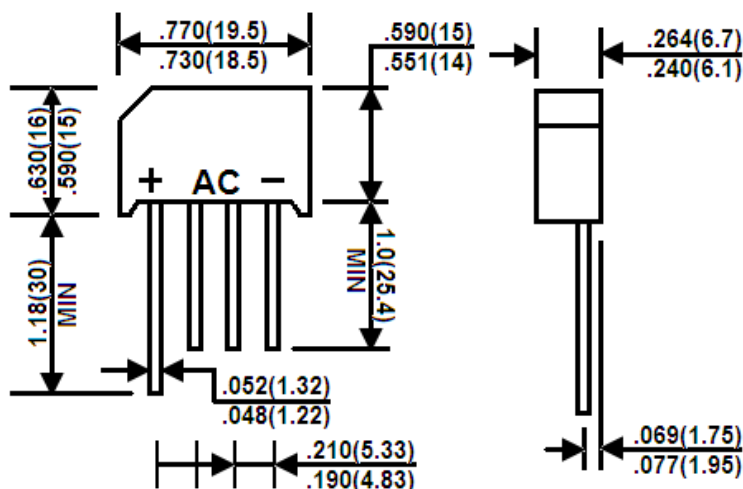
- * Ideal for printed circuit board
- * High surge current capability
- * Reliable low cost construction
- * Leads solderable per MIL-STD-202, method 208



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

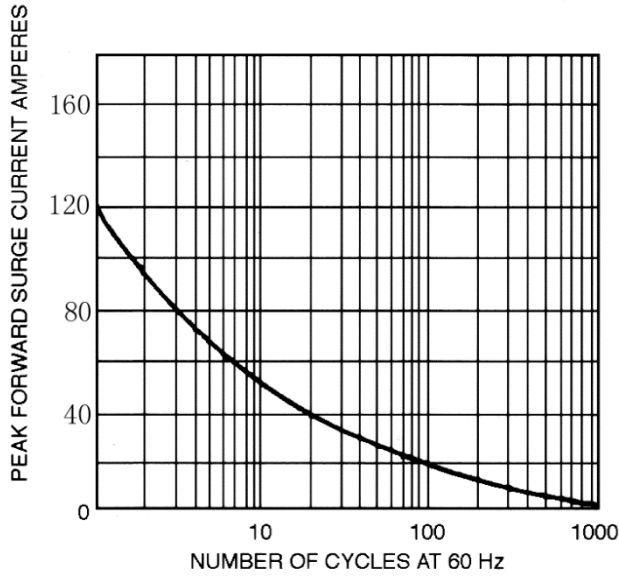


FIG.2 – OUTPUT RECTIFIED CURRENT DERATING CURVE

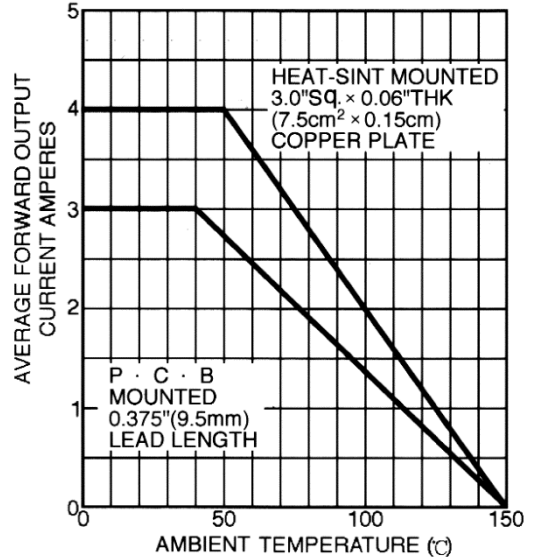


FIG.3 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT

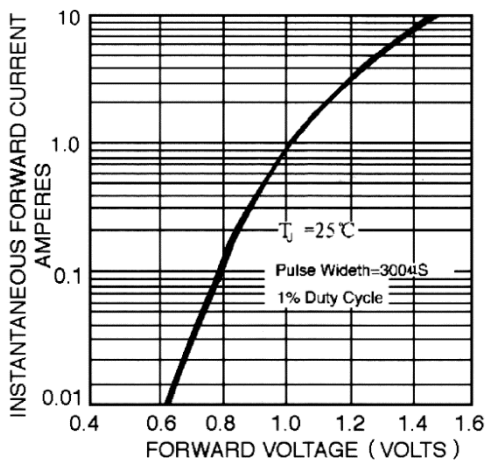
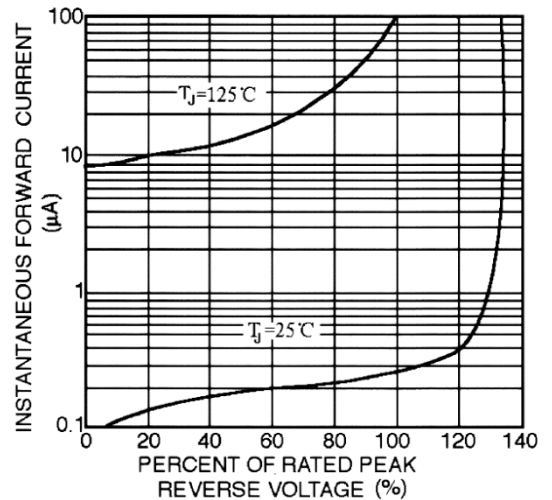


FIG.4 – TYPICAL REVERSE CHARACTERISTICS – PER ELEMENT





KBL400G THRU KBL410G
Single Phase 4.0 Amps. Glass Passivated Bridge Rectifiers

Ordering Information

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