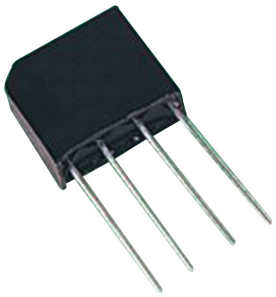
# Glass Passivated
## Bridge Rectifier



### Features

- Surge overload rating -125 Amperes peak
- Ideal for printed circuit board
- Plastic material has UL flammability classification 94V-0

### Mechanical Data

Mounting Position : Any
Reverse Voltage : 100 to 200 Volts
Forward Current : 4 Ampere

### Maximum Ratings and Electrical Characteristics:

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

| Characteristics | Symbol | KBL01G | KBL02G | Unit |
|---|---|---|---|---|
| Max. Recurrent Peak Reverse Voltage | $V_{RRM}$ | 100 | 200 | V |
| Max. RMS Bridge Input Voltage | $V_{RMS}$ | 70 | 140 | |
| Max. DC Blocking Voltage | $V_{DC}$ | 100 | 200 | |
| Max. Average Forward Output Current at 50°C $T_A$ (Note 1) | $I_{(AV)}$ | 4 | | A |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load | $I_{FSM}$ | 125 | | A |
| Max. Forward Voltage Drop Per Element at 4 A Peak | $V_F$ | 1.1 | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | $I_R$ | 10 | | µA |
| Max. Reverse Current at Rated DC Blocking Voltage and 150°C $T_A$ | $I_R$ | 1 | | nS |
| Operating Temperature Range | $T_J$ | -55 to +150 | | °C |
| Storage Temperature Range | $T_{STG}$ | -55 to +150 | | °C |

**Notes** : 1. Measured with $I_F$ = 0.5A, $I_R$ = 1A, $I_{RR}$ = 0.25A
2. Measured at 1MHz and applied reverse voltage of 4V DC
3. Thermal resistance junction to ambient.
4. The typical data above is for reference only

### Ratings and Characteristic Curves

FLG.1-MAXIMUM FORWARD SUNRGE CURRENT

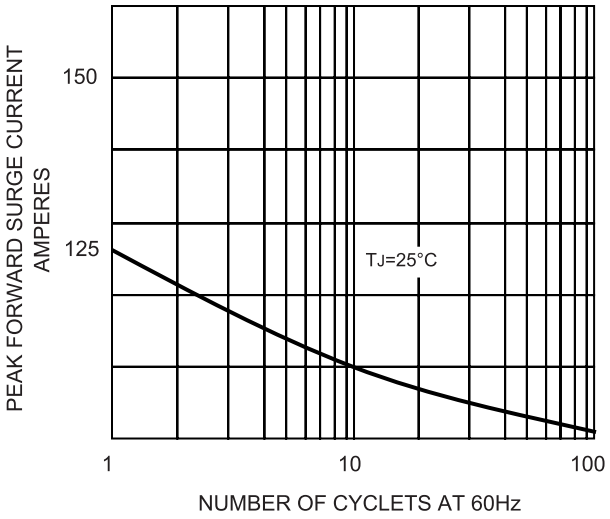



FIG.2-DERATING CURVE
OUTPUT RECTIFIED CURRENT

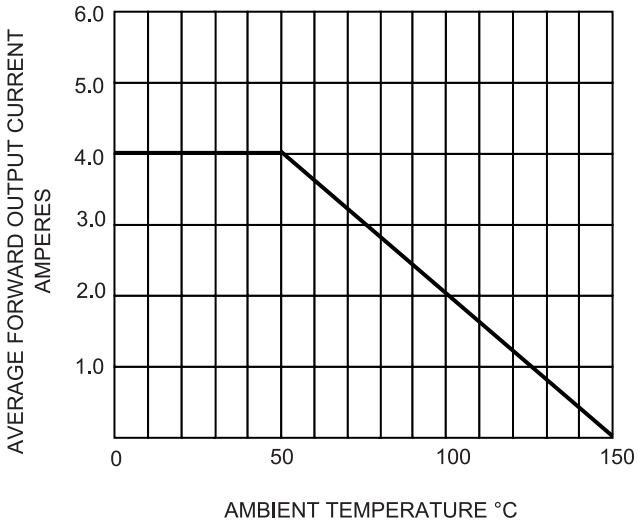



FIG.3-TYPICAL FORWARD CHARACTERISTICS

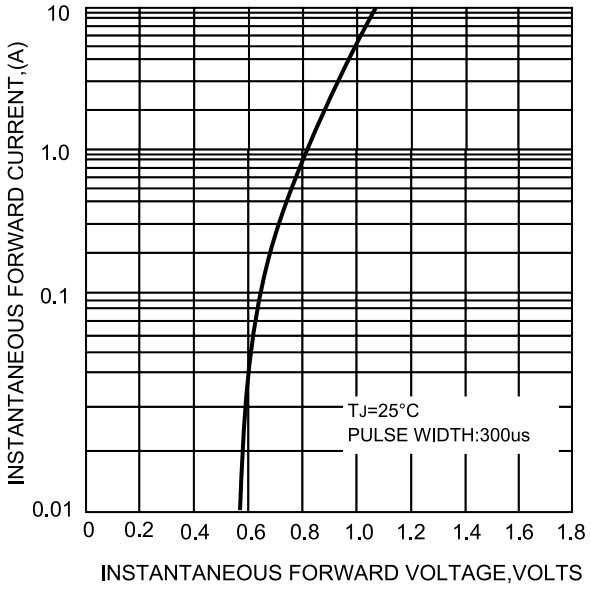
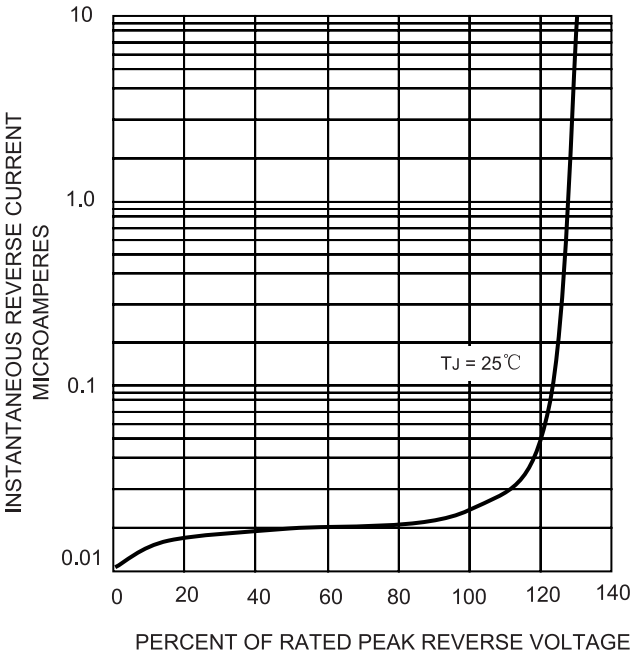



FIG.4– TYPICAL REVERSE
CHARACTERISTICS



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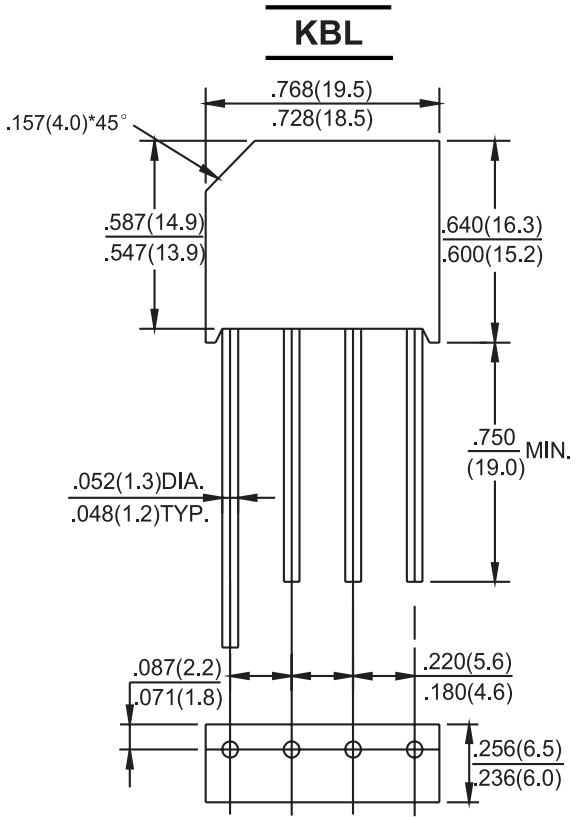
### Dimensions:




Dimensions : Inches (Millimetres)

### Part Number Table

| Description | Part Number |
|---|---|
| Glass Passivated Bridge Rectifiers, 4A 200V | KBL02G |
| Glass Passivated Bridge Rectifiers, 4A 100V | KBL01G |