

## Single Phase Glass Passivated Silicon Bridge Rectifier

$$V_{RRM} = 600 \text{ V} - 1000 \text{ V}$$

$$I_O = 4 \text{ A}$$

### Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Silver plated copper leads
- Types from 50 V to 400 V  $V_{RRM}$
- Not ESD Sensitive

### Mechanical Data

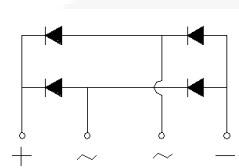
Case: Molded plastic

Terminals: Plated terminals, solderable per MIL-STD-202F, Method 208

Polarity: Marked on body

Weight: 0.167 ounce, 5 grams

Mounting position: Any



KBL Package



### Maximum ratings at $T_a = 25^\circ\text{C}$ (ambient temperature), unless otherwise specified

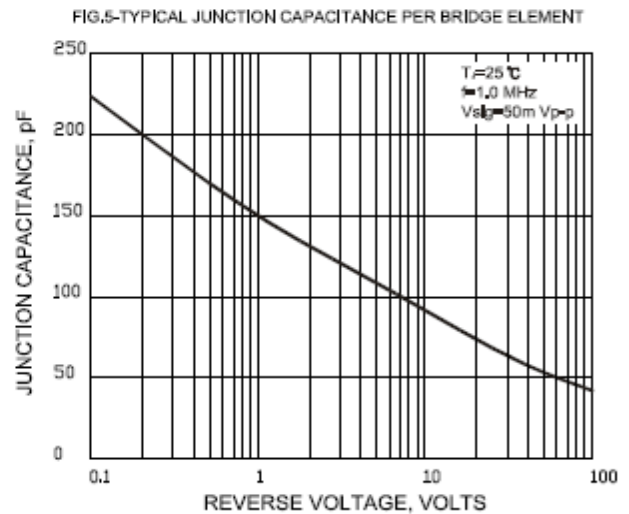
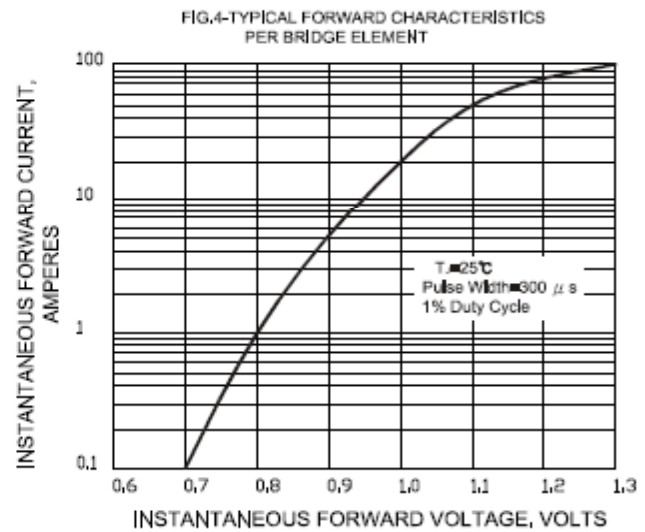
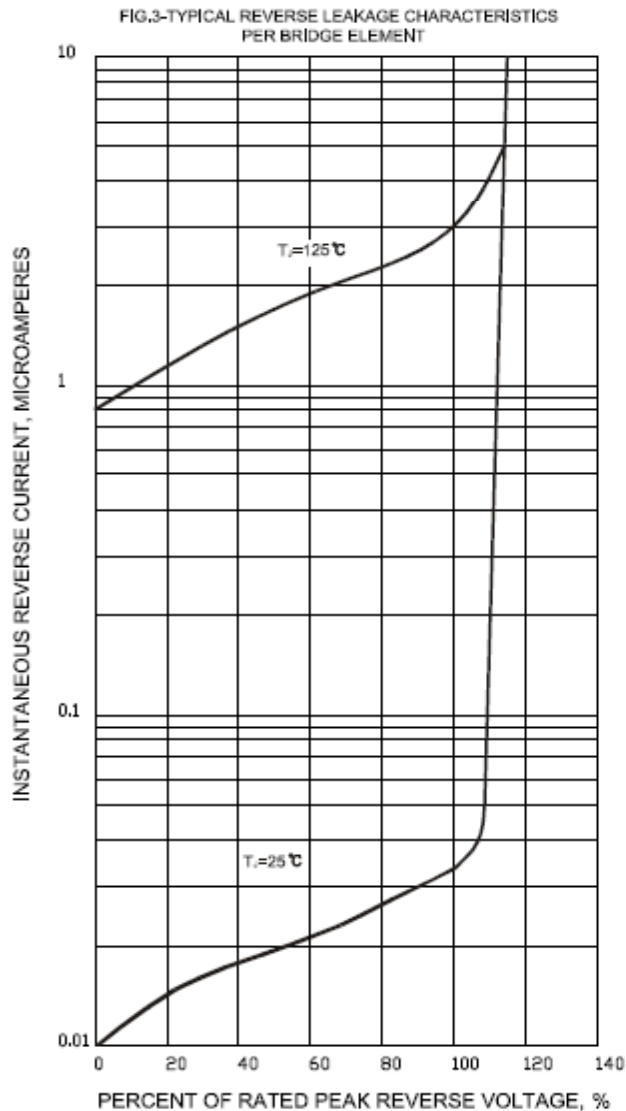
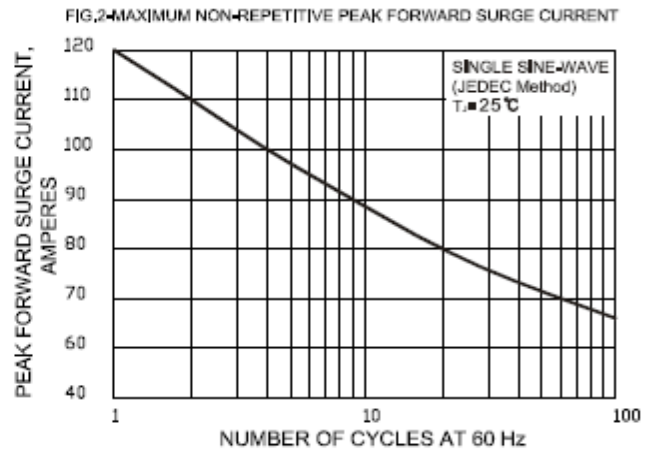
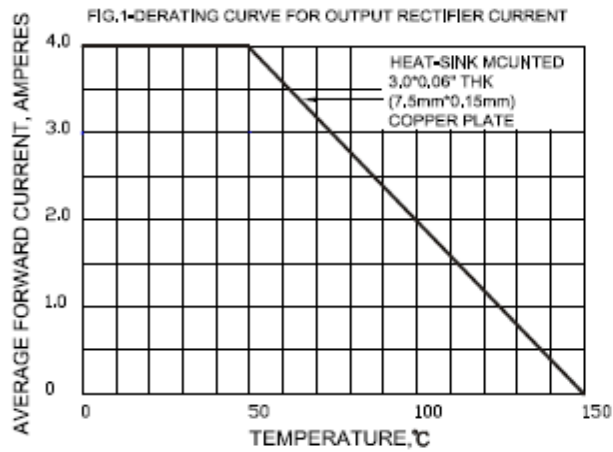
| Parameter                       | Symbol    | Conditions | KBL406G    | KBL408G    | KBL410G    | Unit             |
|---------------------------------|-----------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | $V_{RRM}$ |            | 600        | 800        | 1000       | V                |
| RMS reverse voltage             | $V_{RMS}$ |            | 420        | 560        | 700        | V                |
| DC blocking voltage             | $V_{DC}$  |            | 600        | 800        | 1000       | V                |
| Operating temperature           | $T_j$     |            | -50 to 150 | -50 to 150 | -50 to 150 | $^\circ\text{C}$ |
| Storage temperature             | $T_{stg}$ |            | -50 to 150 | -50 to 150 | -50 to 150 | $^\circ\text{C}$ |

### Electrical characteristics at $T_a = 25^\circ\text{C}$ , unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

For capacitive load derate current by 20%

| Parameter                                                    | Symbol    | Conditions                | KBL406G | KBL408G | KBL410G | Unit          |
|--------------------------------------------------------------|-----------|---------------------------|---------|---------|---------|---------------|
| Maximum average forward rectified current                    | $I_O$     | $T_a = 50^\circ\text{C}$  | 4       | 4       | 4       | A             |
| Peak forward surge current                                   | $I_{FSM}$ | single sine-wave          | 120     | 120     | 120     | A             |
| Maximum instantaneous forward voltage per leg                | $V_F$     | $I_F = 4 \text{ A}$       | 1.1     | 1.1     | 1.1     | V             |
| Maximum reverse current at rated DC blocking voltage per leg | $I_R$     | $T_a = 25^\circ\text{C}$  | 5       | 5       | 5       | $\mu\text{A}$ |
|                                                              |           | $T_a = 125^\circ\text{C}$ | 100     | 100     | 100     |               |



## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

