

# Single Phase Glass Passivated Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 400\text{ V}$   
 $I_O = 4\text{ A}$

## 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

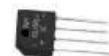
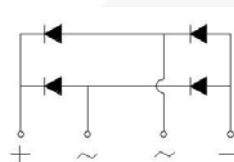
Terminals: Plated terminals, solderable per MIL-STD-202F, Method 208

Polarity: Marked on body

Weight: 0.167 ounce, 5 grams

Mounting position: Any

KBL Package



## Maximum ratings at $T_j = 25\text{ }^\circ\text{C}$ , unless otherwise specified

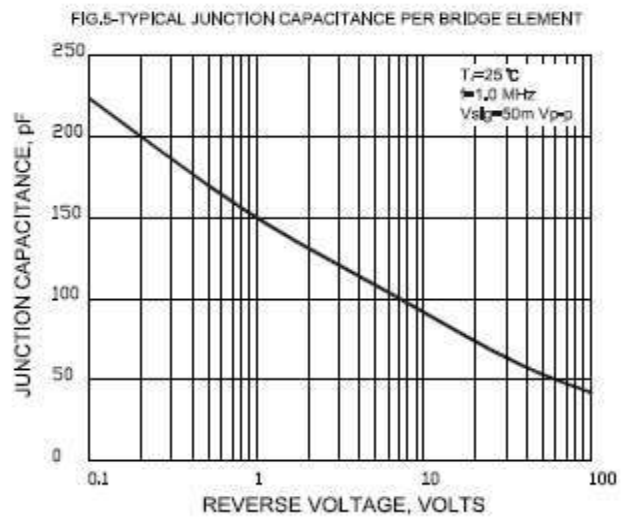
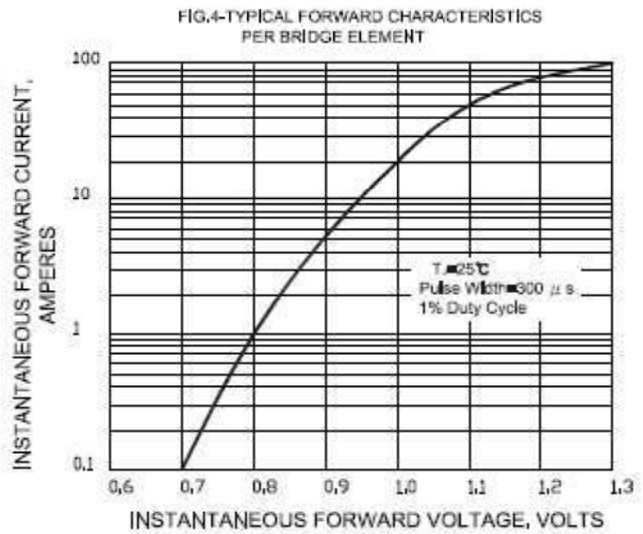
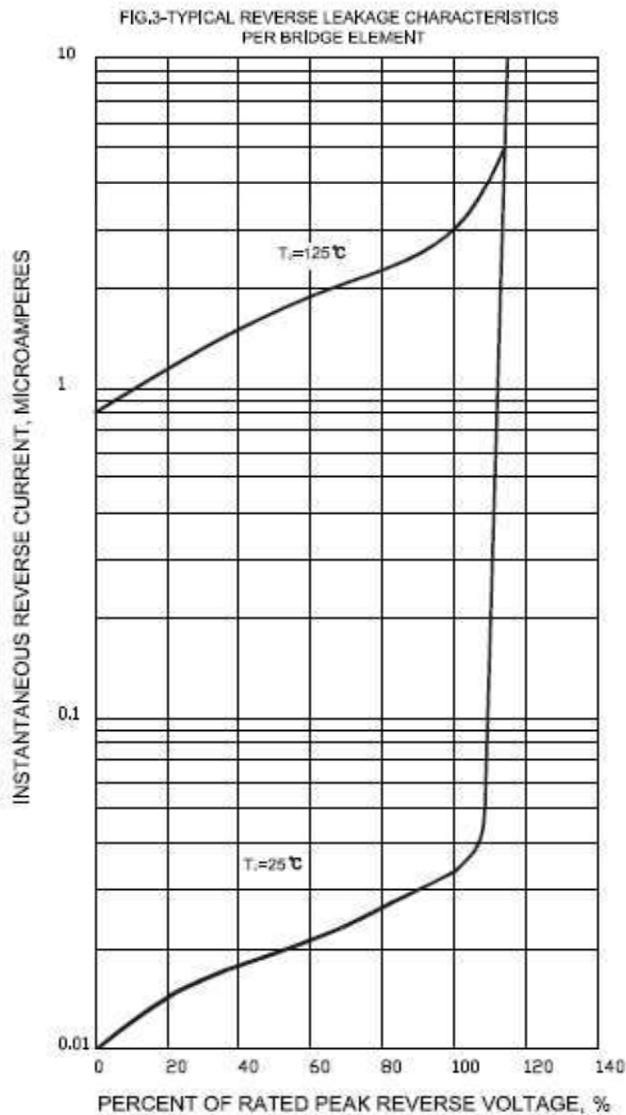
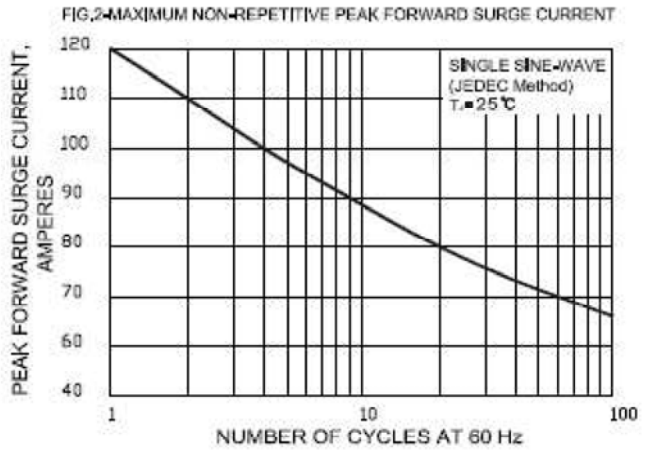
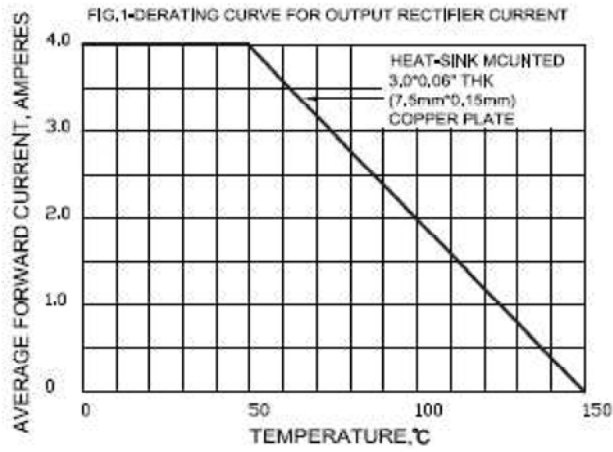
| Parameter                       | Symbol    | Conditions | KBL401G    | KBL402G    | KBL403G    | KBL404G    | Unit             |
|---------------------------------|-----------|------------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | $V_{RRM}$ |            | 50         | 100        | 200        | 400        | V                |
| RMS reverse voltage             | $V_{RMS}$ |            | 35         | 70         | 140        | 280        | V                |
| DC blocking voltage             | $V_{DC}$  |            | 50         | 100        | 200        | 400        | V                |
| Operating temperature           | $T_j$     |            | -50 to 150 | -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 | -50 to 150 | $^\circ\text{C}$ |

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

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

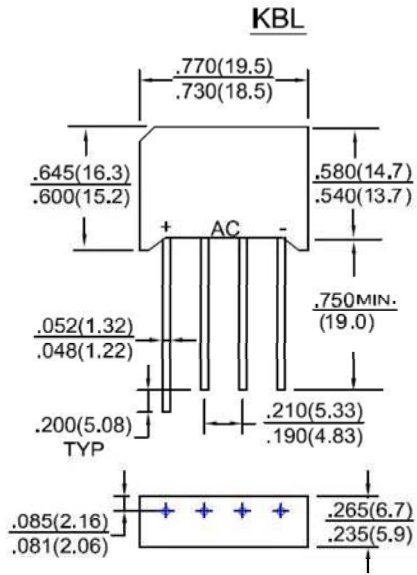
For capacitive load derate current by 20%

| Parameter  | Symbol    | Conditions                        | KBL401G | KBL402G | KBL403G | KBL404G | Unit          |
|--|-----------|-----------------------------------|---------|---------|---------|---------|---------------|
| Maximum average forward rectified current                    | $I_O$     | $T_a = 50\text{ }^\circ\text{C}$  | 4       | 4       | 4       | 4       | A             |
| Peak forward surge current                                   | $I_{FSM}$ | single sine-wave                  | 120     | 120     | 120     | 120     | A             |
| Maximum instantaneous forward voltage per leg                | $V_F$     | $I_F = 4\text{ A}$                | 1.1     | 1.1     | 1.1     | 1.1     | V             |
| Maximum reverse current at rated DC blocking voltage per leg | $I_R$     | $T_a = 25\text{ }^\circ\text{C}$  | 5       | 5       | 5       | 5       | $\mu\text{A}$ |
|  |           | $T_a = 125\text{ }^\circ\text{C}$ | 100     | 100     | 100     | 100     |               |



**Package dimensions and terminal configuration**

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)

