

Single Phase Silicon Bridge Rectifier

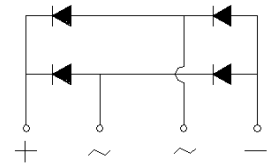
$V_{RRM} = 600\text{ V} - 1000\text{ V}$

$I_O = 8\text{ A}$

Features

- Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit boards
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/ 10 seconds, 0.375 (9.5mm) lead length, 5 lbs. (2.3 kg) tension
- Types from 600 V up to 1000 V V_{RRM}
- Not ESD Sensitive

KBU Package



Mechanical Data

Case: Molded plastic body

Terminals: Plated leads, solderable per MIL-STD-750, Method 2026

Mounting position: Any

Mounting torque: 5 inch-lbs max

Weight: 0.268 ounces, 7.6 grams

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

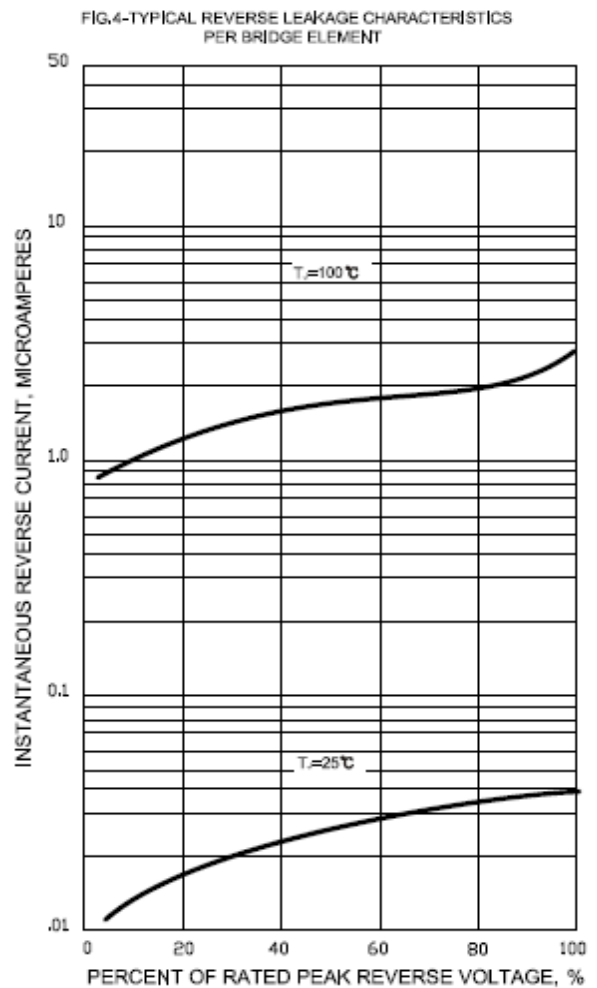
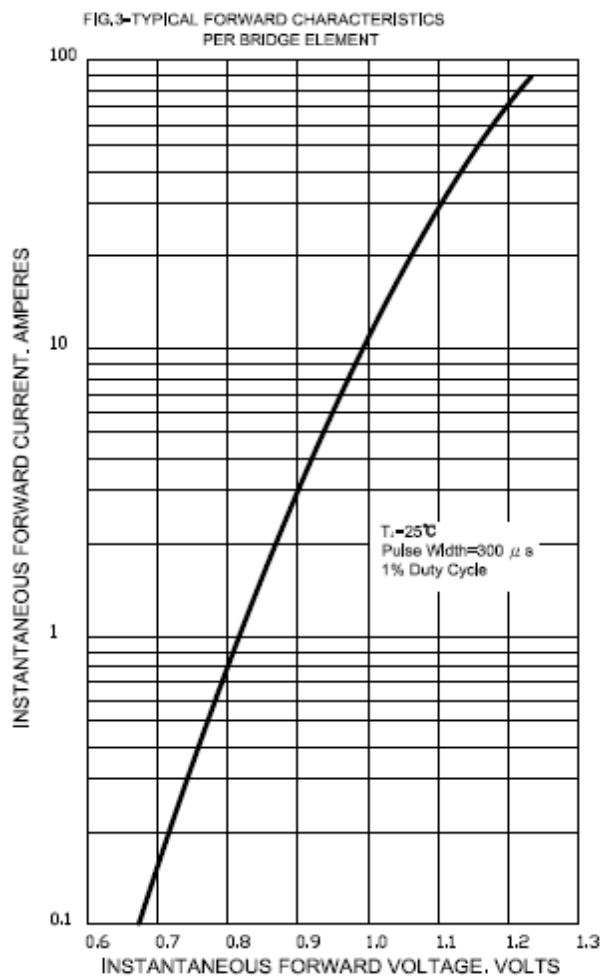
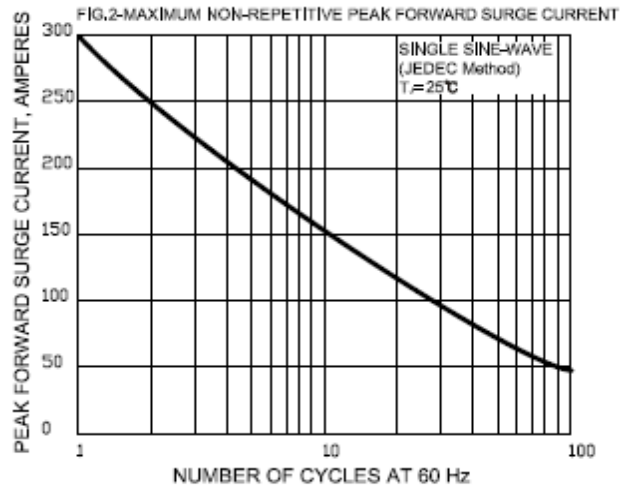
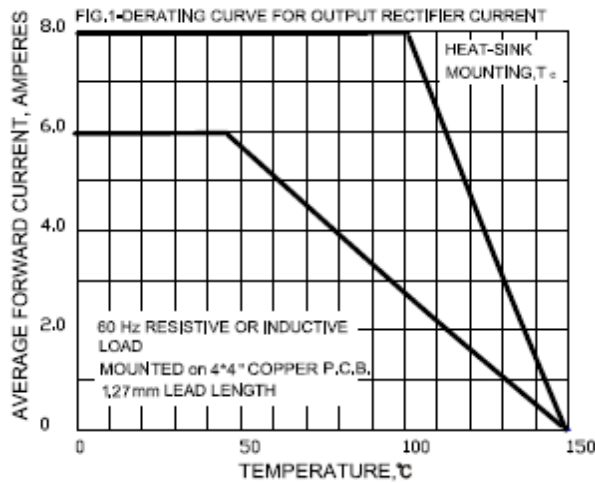
| Parameter | Symbol | Conditions | KBU8J | KBU8K | KBU8M | Unit |
|---------------------------------|-----------|------------|------------|------------|------------|------------------|
| Repetitive peak reverse voltage | V_{RRM} | | 600 | 800 | 1000 | V |
| RMS reverse voltage | V_{RMS} | | 420 | 560 | 700 | V |
| DC blocking voltage | V_{DC} | | 600 | 800 | 1000 | V |
| Operating temperature | T_j | | -55 to 150 | -55 to 150 | -55 to 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -55 to 150 | -55 to 150 | -55 to 150 | $^\circ\text{C}$ |

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

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

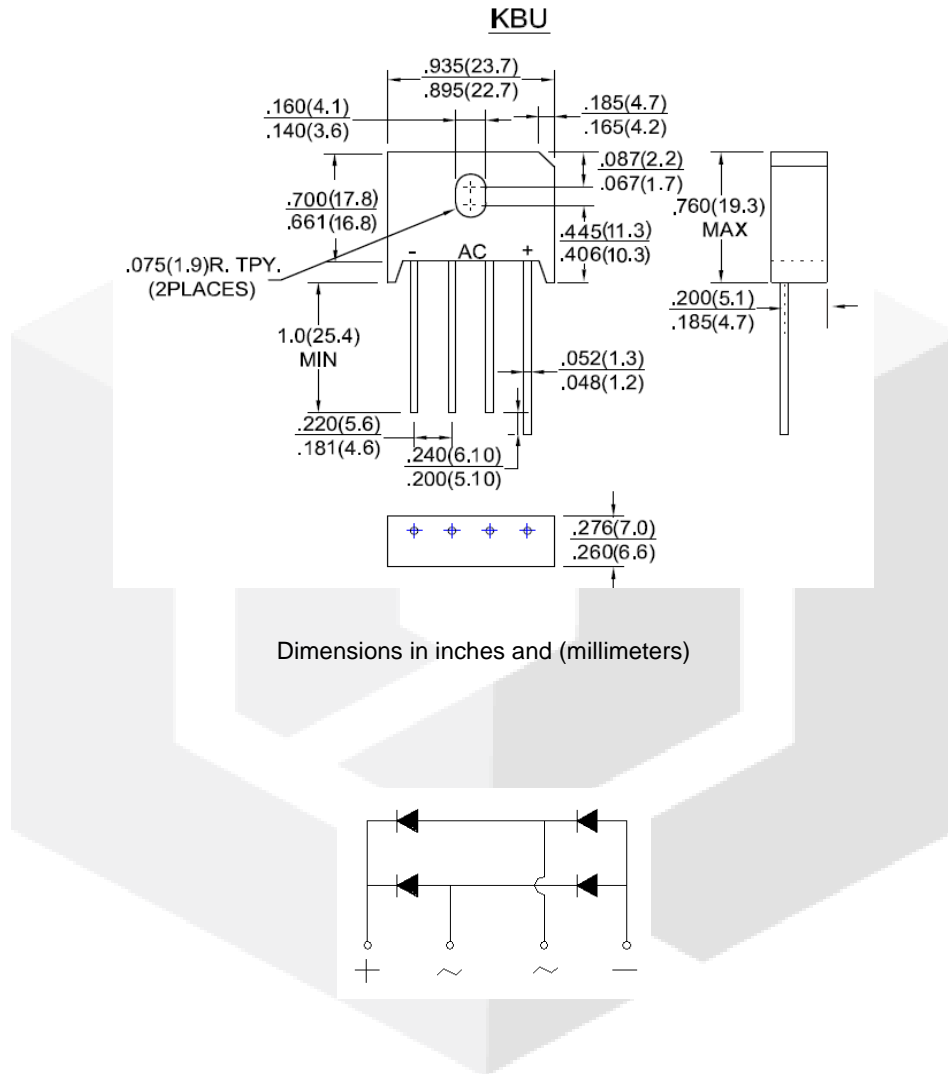
For capacitive load derate current by 20%

| Parameter | Symbol | Conditions | KBU8J | KBU8K | KBU8M | Unit |
|---|-----------|-----------------------------------|-------|-------|-------|---------------|
| Maximum average forward rectified current | I_O | $T_c = 100\text{ }^\circ\text{C}$ | 8 | 8 | 8 | A |
| | | $T_a = 45\text{ }^\circ\text{C}$ | 6 | 6 | 6 | |
| Peak forward surge current | I_{FSM} | $t_p = 8.3\text{ ms}$, half sine | 300 | 300 | 300 | A |
| Maximum instantaneous forward voltage drop per leg | V_F | $I_F = 8.0\text{ A}$ | 1.0 | 1.0 | 1.0 | V |
| Maximum DC reverse current at rated DC blocking voltage | I_R | $T_a = 25\text{ }^\circ\text{C}$ | 10 | 10 | 10 | μA |
| | | $T_a = 100\text{ }^\circ\text{C}$ | 500 | 500 | 500 | |



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [GeneSiC Semiconductor](#) manufacturer:

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [GBJ1504-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU6B-E3/45](#) [GSIB680-E3/45](#) [DB101-BP](#)
[DF01](#) [DF10SA-E345](#) [BU1508-E3/45](#) [KBPC50-10S](#) [RS405GL-BP](#) [G5SBA60-E3/51](#) [GBU10J-BP](#) [GBU6M](#) [GBU8D-BP](#) [GBU8J-BP](#)
[2KBB10](#) [36MB140A](#) [TB102M](#) [MB1510](#) [MB258](#) [MB6M-G](#) [MB86](#) [TL401G](#) [MDA920A2](#) [TU602](#) [TU810](#) [MP501W-BP](#) [MP502-BP](#)
[BR101-BP](#) [BR84DTP204](#) [BU2008-E3/51](#) [KBPC10/15/2501WP](#) [KBPC25-02](#) [DF06SA-E345](#) [DF1510S](#) [VS-40MT160PAPBF](#) [GBL02-E3/45](#)
[GBU4G-BP](#) [GBJ2506-BP](#) [GBU6B-E3/51](#) [GSIB15A80-E3/45](#) [DB104-BP](#) [TB354](#) [70MT160KPBF](#)