

Single Phase Silicon Bridge Rectifier

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

$$I_O = 10 \text{ A}$$

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

Mechanical Data

Case: Molded plastic body

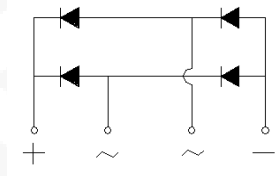
Terminals: Plated leads, solderable per MIL-STD-750, Method 2026

Mounting position: Any

Mounting torque: 5 inch-lbs max

Weight: 0.268 ounces, 7.6 grams

KBU Package



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

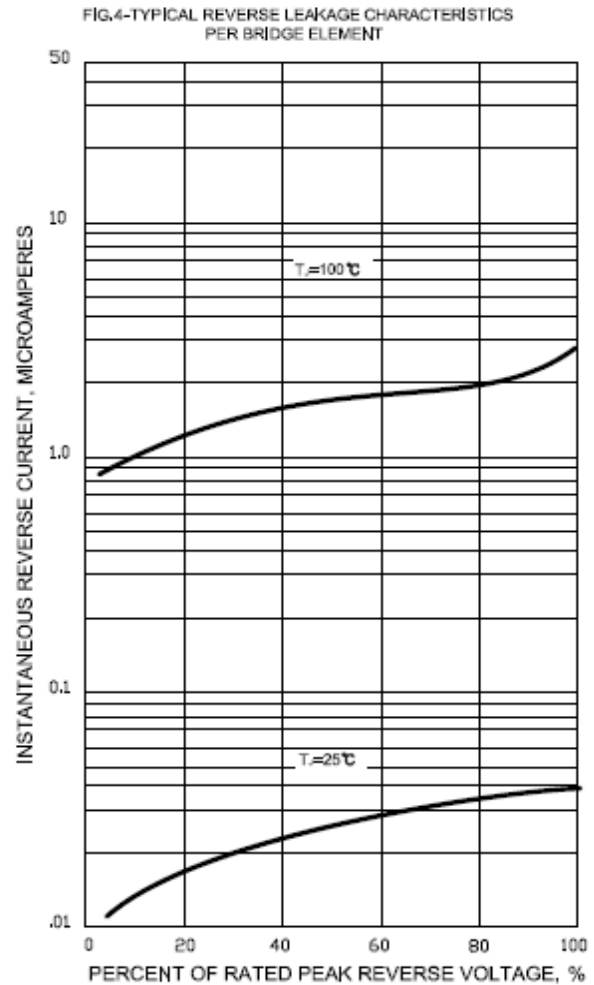
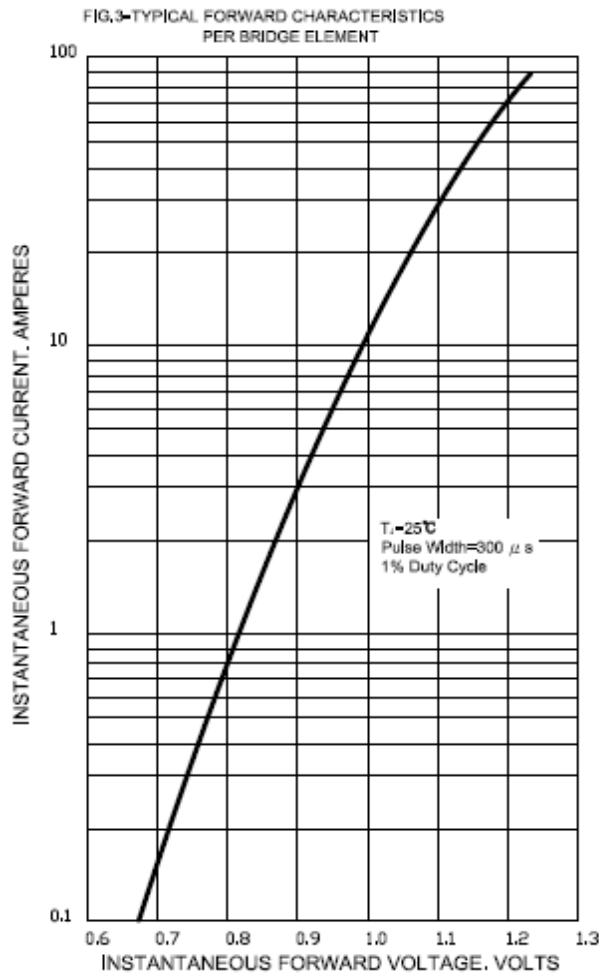
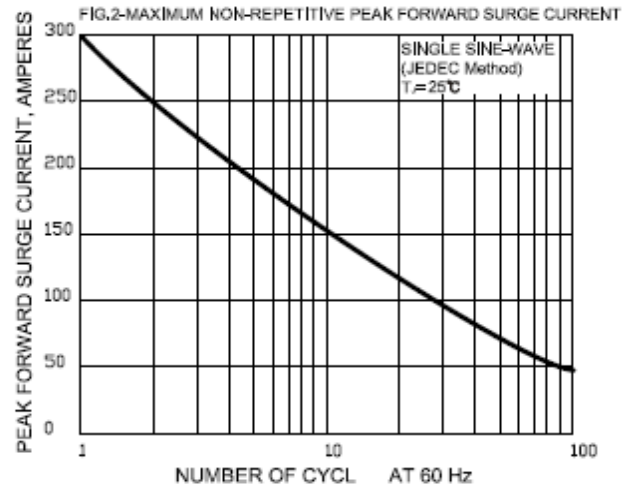
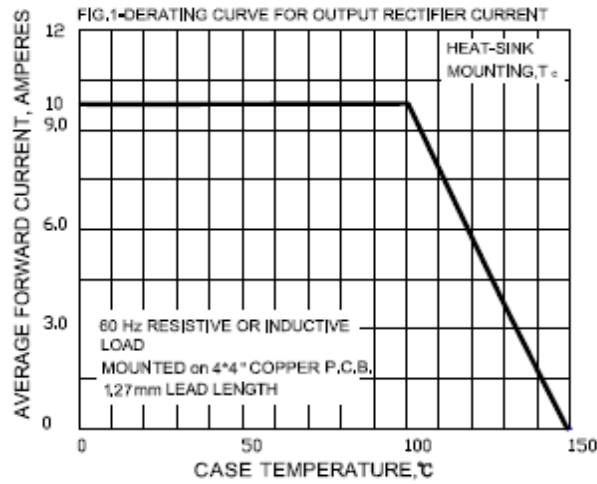
Parameter	Symbol	Conditions	KBU1006	KBU1008	KBU1010	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
RMS reverse voltage	V_{RMS}		420	560	700	V
DC blocking voltage	V_{DC}		600	800	1000	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	°C

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

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

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBU1006	KBU1008	KBU1010	Unit
Maximum average forward rectified current	I_O	$T_c = 100^\circ\text{C}$	10	10	10	A
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	$I_F = 10 \text{ A}$	1.05	1.05	1.05	V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	10 500	10 500	10 500	μA



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

