

Single Phase Silicon Bridge Rectifier

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

$I_O = 10\text{ A}$

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 50 V up to 400 V V_{RRM}
- Not ESD Sensitive

Mechanical Data

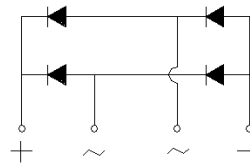
Case: Molded plastic body

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 $T_c = 25\text{ °C}$, unless otherwise specified

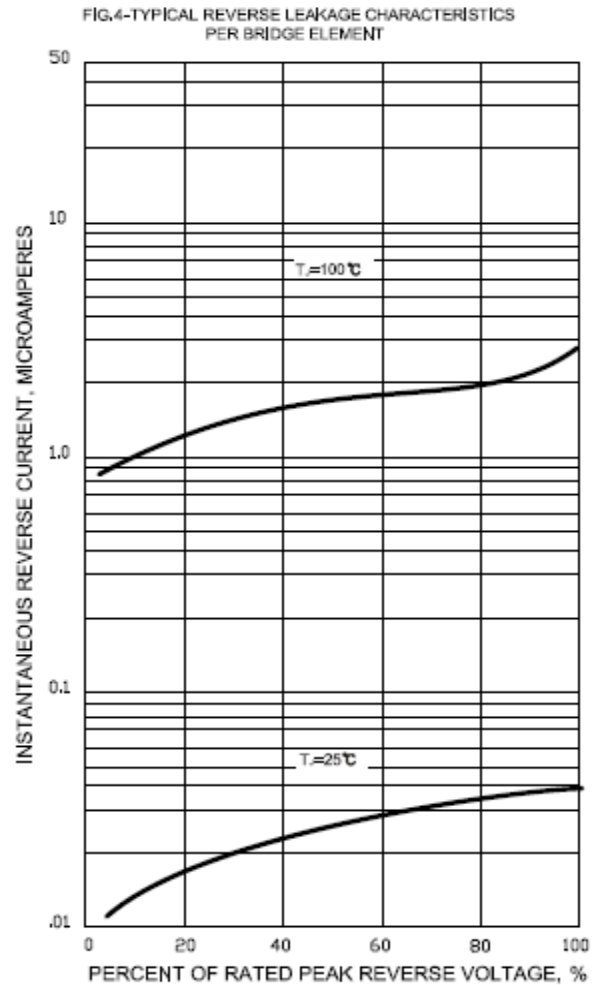
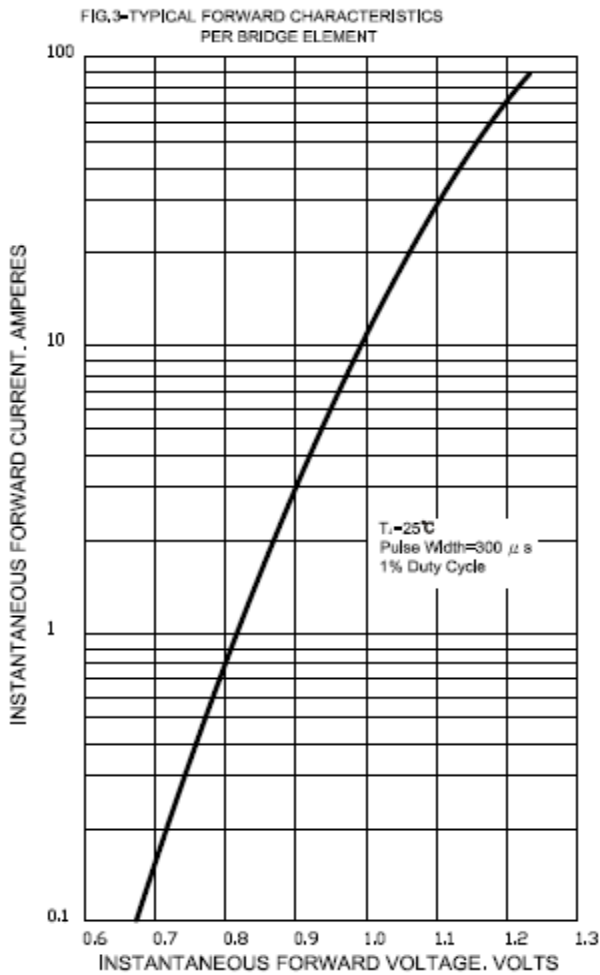
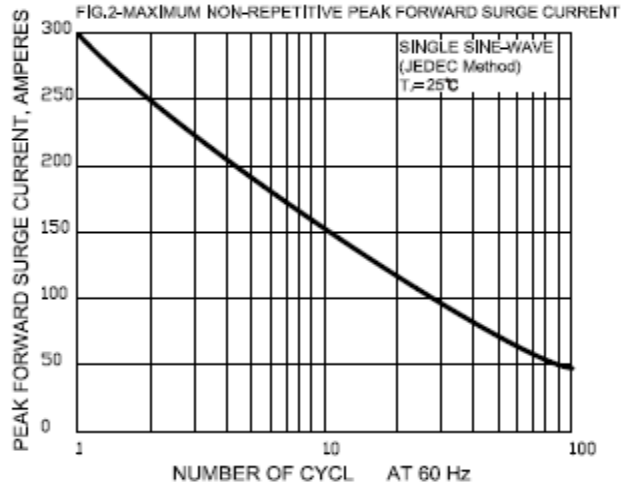
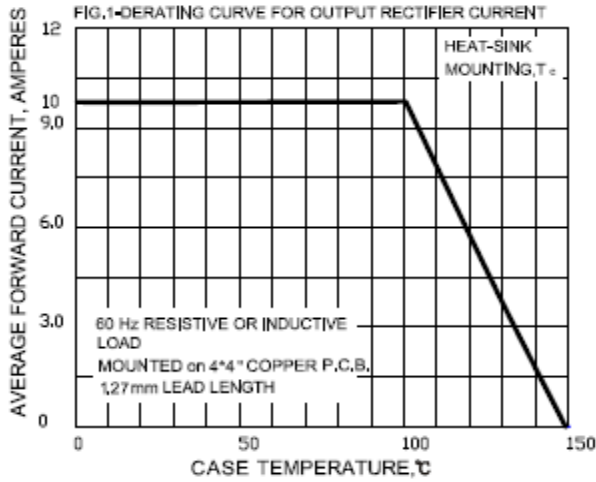
Parameter	Symbol	Conditions	KBU10005	KBU1001	KBU1002	KBU1004	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

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

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

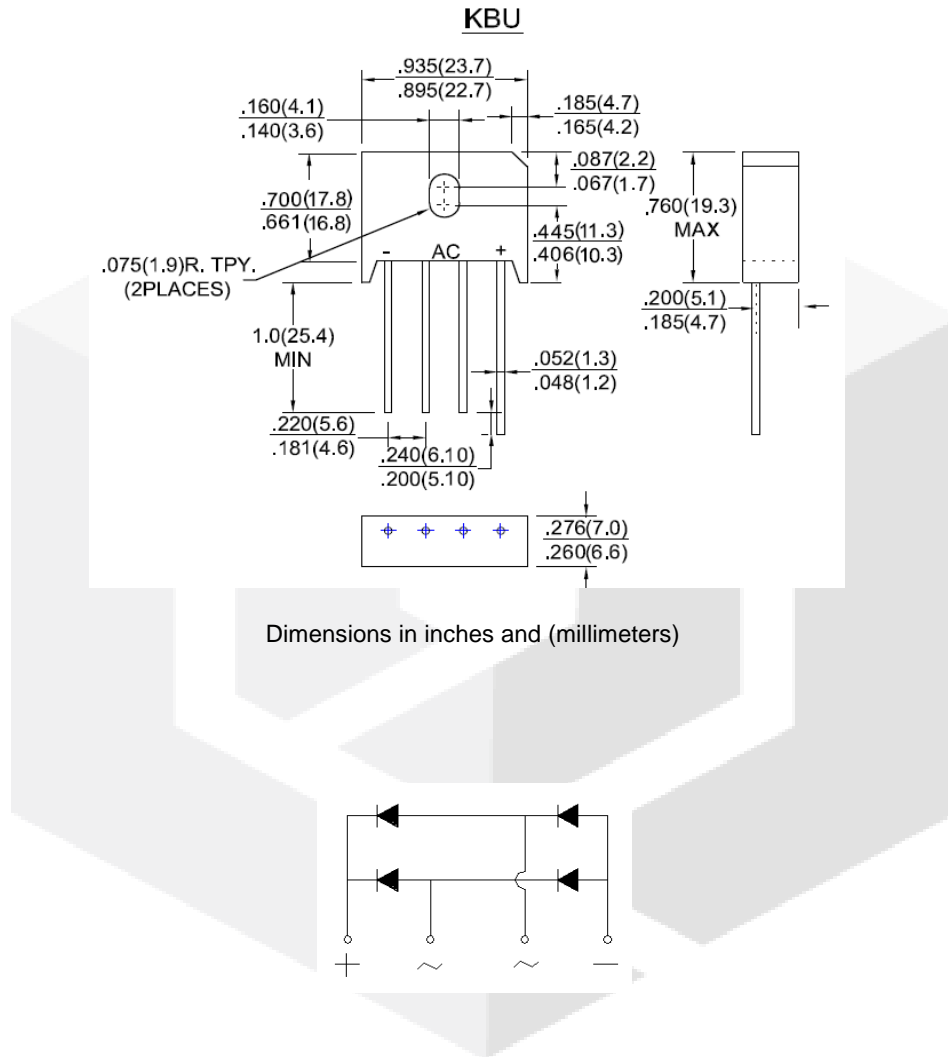
For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBU10005	KBU1001	KBU1002	KBU1004	Unit
Maximum average forward rectified current	I_O	$T_c = 100\text{ °C}$	10	10	10	10	A
Peak forward surge current	I_{FSM}	$t_p = 8.3\text{ ms}$, half sine	300	300	300	300	A
Maximum instantaneous forward voltage drop per leg	V_F	$I_F = 10\text{ A}$	1.05	1.05	1.05	1.05	V
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_a = 25\text{ °C}$	10	10	10	10	μA
		$T_a = 100\text{ °C}$	500	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](#) [VS-2KBB60](#) [DF06SA-E345](#) [DF1510S](#) [VS-40MT160PAPBF](#)
[GBL02-E3/45](#) [GBU4G-BP](#) [GBJ2506-BP](#) [GBU6B-E3/51](#) [GSIB15A80-E3/45](#) [DB104-BP](#) [TB354](#)