

Single Phase Glass Passivated Silicon Bridge Rectifier

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

$I_O = 6 \text{ A}$

Features

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

Mechanical Data

Case: Molded plastic

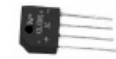
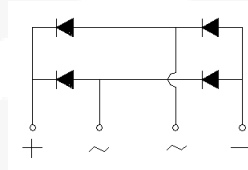
Terminals: Plated terminals, solderable per MIL-STD-202F, Method 208

Polarity: Marked on body

Weight: 0.167 ounce, 5 grams

Mounting position: Any

KBL Package



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

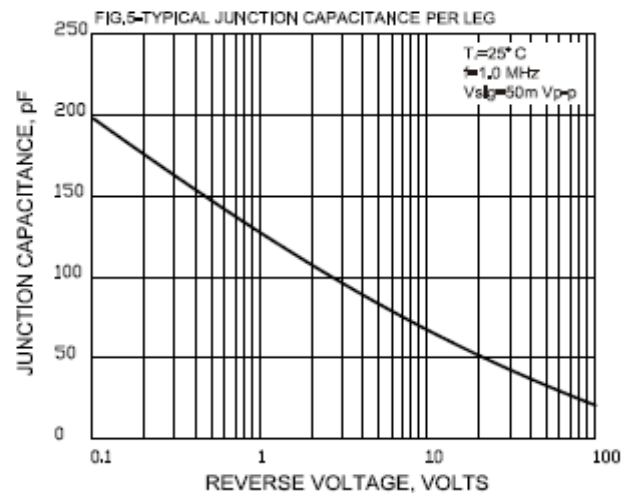
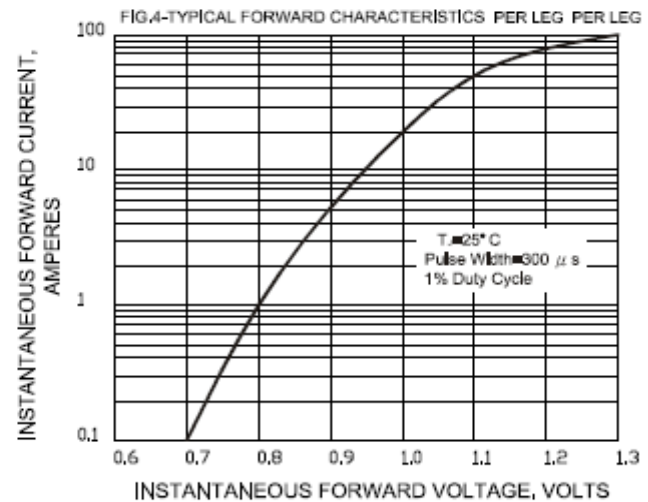
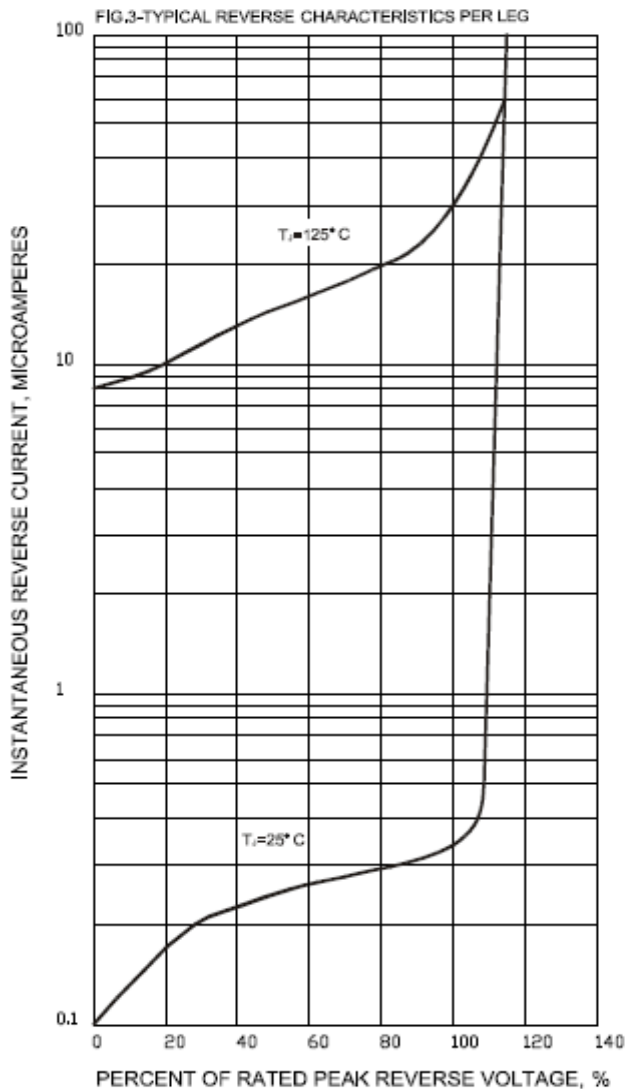
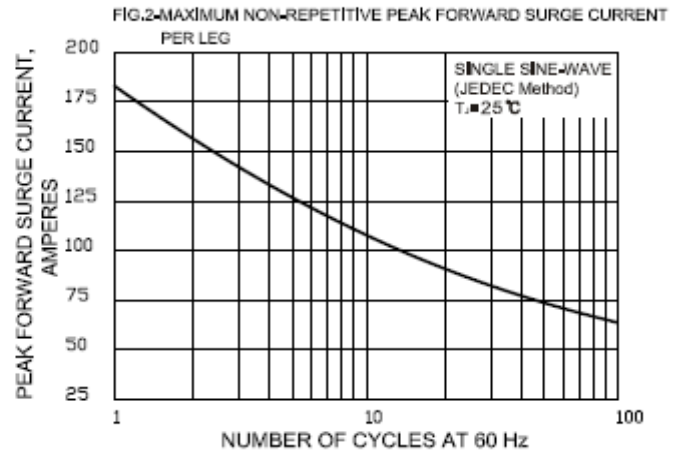
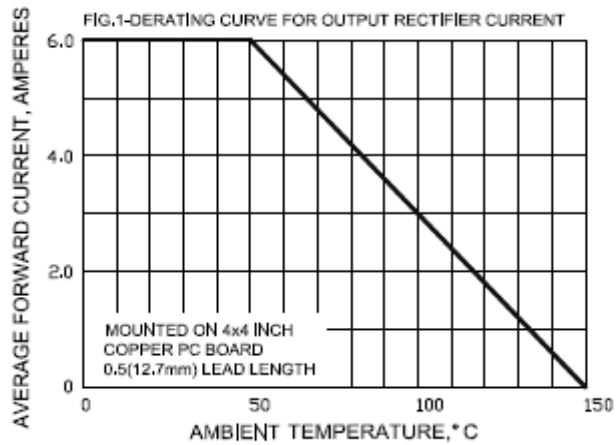
Parameter	Symbol	Conditions	KBL6005G	KBL601G	KBL602G	KBL604G	Unit
Repetitive peak reverse voltage	V_{RRM}		50	100	200	400	V
RMS reverse voltage	V_{RMS}		35	70	140	280	V
DC blocking voltage	V_{DC}		50	100	200	400	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	$^\circ\text{C}$

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

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

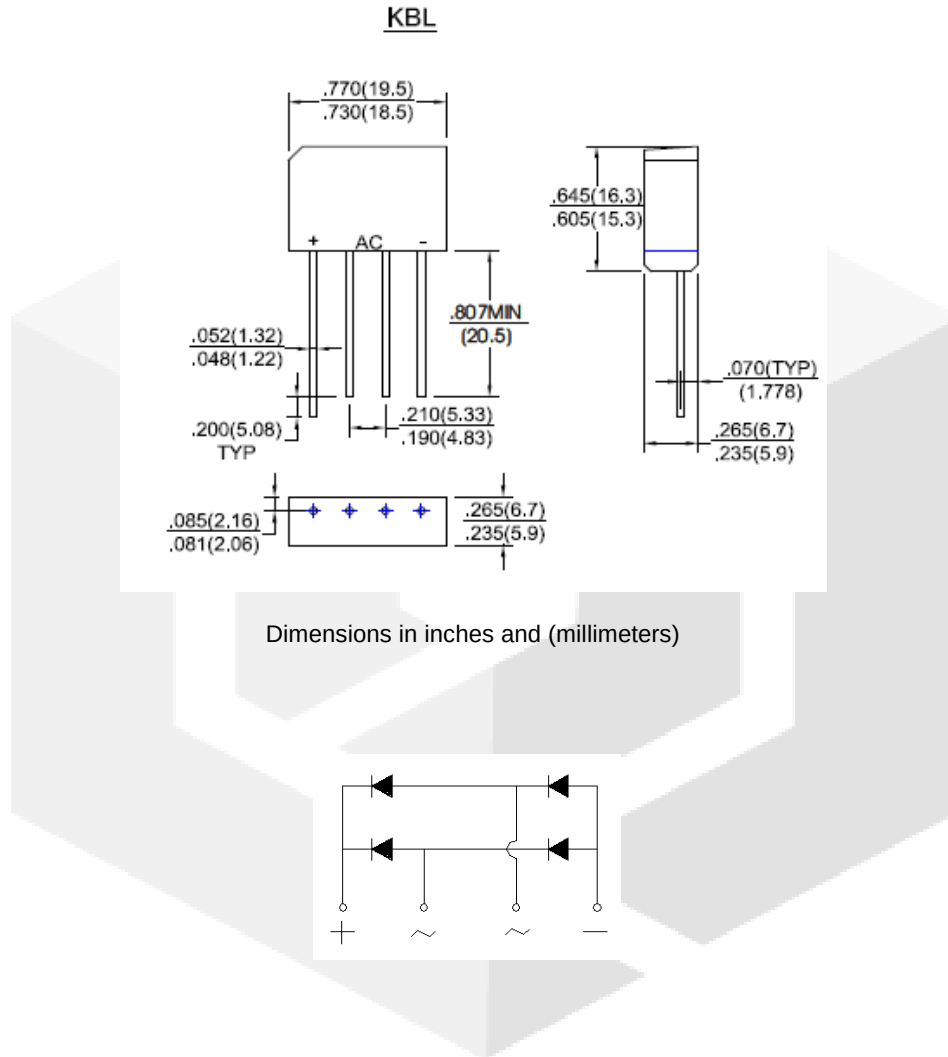
For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBL6005G	KBL601G	KBL602G	KBL604G	Unit
Maximum average forward rectified current	I_O	$T_a = 50^\circ\text{C}$	6	6	6	6	A
Peak forward surge current	I_{FSM}	single sine-wave	180	180	180	180	A
Maximum instantaneous forward voltage per leg	V_F	$I_F = 6 \text{ A}$	1.1	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	I_R	$T_a = 25^\circ\text{C}$	5	5	5	5	μA
		$T_a = 125^\circ\text{C}$	100	100	100	100	



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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