

## KBL406G thru KBL410G

# Single Phase Glass Passivated Silicon Bridge Rectifier

 $V_{RRM} = 600 \text{ V} - 1000 \text{ V}$   $I_{O} = 4 \text{ A}$ 

#### **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<sub>RRM</sub>
- Not ESD Sensitive





#### **Mechanical Data**

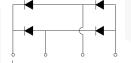
Case: Molded plastic

Terminals: Plated terminals, solderable per MIL-STD-

202F, Method 208

Polarity: Marked on body Weight: 0.167 ounce, 5 grams

Mounting position: Any







### Maximum ratings at Ta = 25 °C (ambient temperature), unless otherwise specified

Parameter	Symbol	Conditions	KBL406G	KBL408G	KBL410G	Unit
Repetitive peak reverse v	oltage V <sub>RRM</sub>		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 <sub>j</sub>		-50 to 150	-50 to 150	-50 to 150	°C
Storage temperature	T <sub>stq</sub>		-50 to 150	-50 to 150	-50 to 150	°C

#### Electrical characteristics at Ta = 25 °C, unless otherwise specified

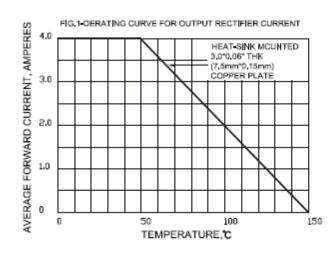
Single phase, half sine wave, 60 Hz, resistive or inductive load

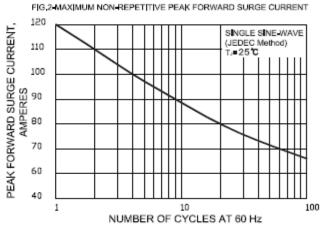
For capacitive load derate current by 20%

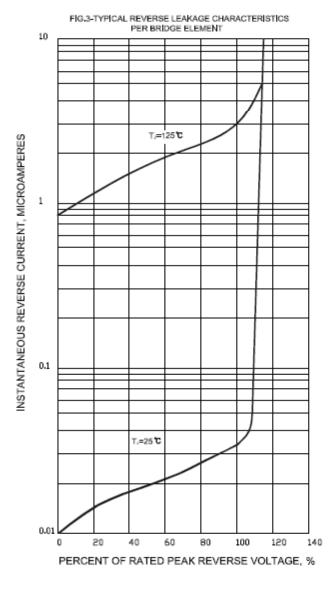
Parameter	Symbol	Conditions	KBL406G	KBL408G	KBL410G	Unit
Maximum average forward rectified current	I <sub>o</sub>	T <sub>a</sub> = 50 °C	4	4	4	Α
Peak forward surge current	I <sub>FSM</sub>	single sine-wave	120	120	120	Α
Maximum instantaneous forward voltage per leg	$V_{F}$	I <sub>F</sub> = 4 A	1.1	1.1	1.1	V
Maximum reverse current at rated DC blocking voltage per leg	I <sub>R</sub>	T <sub>a</sub> = 25 °C	5	5	5	μА
		T <sub>a</sub> = 125 °C	100	100	100	

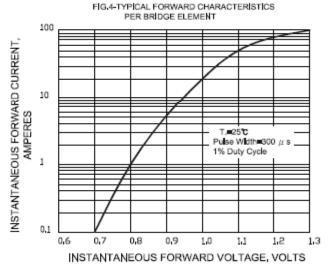


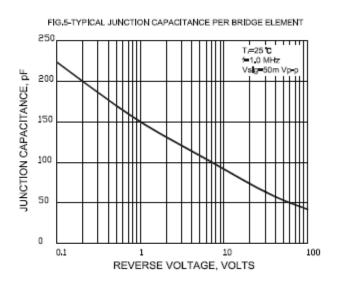
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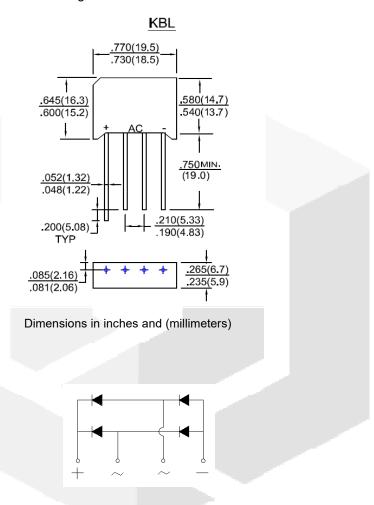






## Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



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GeneSiC Semiconductor: KBL406G KBL408G KBL410G