## Silicon Bridge Rectifiers



## KBL400-G thru KBL410-G

Reverse Voltage: 50 ~ 1000 Volts

Forward Current: 4.0 Amp

#### Features:

Diffused Junction

Low Forward Voltage Drop

High Reliability

• High Current Capability

• High Surge Current Capability

Ideal for Printed Circuit Boards

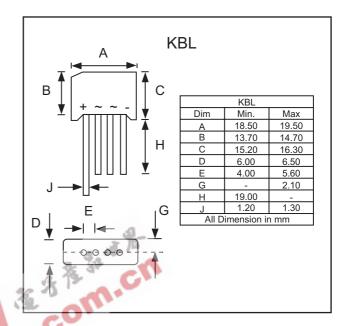
#### **Mechanical Data:**

• Case: Molded Plastic

 Terminals: Plated Leads Solderable Per MIL STD-202, Method 208

• Weight: 5.6 grams (approx.)

Mounting position: Any



### **Maximum Ratings and Electrical Characteristics**

Rating at 25°C unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate currently by 20%.

Characteristics	Symbol	KBL 400-G	KBL 401-G	KBL 402-G	KBL 404-G	KBL 406-G	KBL 408-G	KBL 410-G	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$								
Working Peak Reverse Voltage	$V_{RWM}$	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>								
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note1) @ T <sub>A</sub> = 75°C	Io	4							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150							А
Forward Voltage (per element) @ I <sub>F</sub> =2.0A	$V_{FM}$	1.1						٧	
Peak Reverse Current @ T <sub>C</sub> =25°C At Rated DC Blocking Voltage @ T <sub>C</sub> =100°C	I <sub>R</sub>	10 1.0							uA mA
I <sup>2</sup> t Rating for Fusing (t<8.3ms) (Note1)	I <sup>2</sup> t	166							A <sup>2</sup> S
Typical Thermal Resistance (Note2)	Rejc	19							K/W
Operating and Storage Temperature Range	$T_j$ , $T_{STG}$	-65 to +125							°C

Note:1. Non-repetitive for t>1ms and < 8.3 ms

2. Thermal resistance junction to ambient mounted on PC board with 13.0 x 13.0 x 0.03 mm thick land areas.

"-G" suffix designated RoHS compliant version

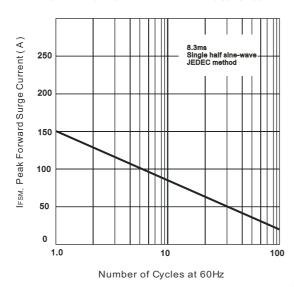
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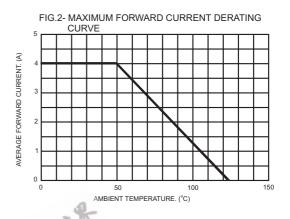


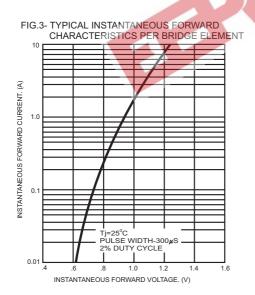
## KBL400-G thru KBL410-G

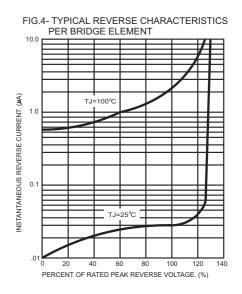
Rating and Characteristic Curves (KBL400-G thru 410-G)

FIG.1- MAXIMUM NON-REPETITIVE PEAK Fwd SURGE CURRENT









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