

## **KBL4005 THRU KBL410**

# **KBL Plastic-Encapsulate Bridge Rectifier**

#### **Features**

•l<sub>0</sub> 4.0A

●VRRM 50V-1000V

High surge current capability

• Polarity: Color band denotes cathode

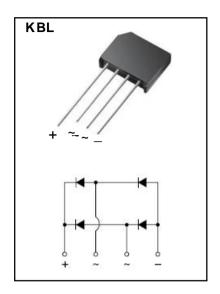
### **Applications**

 General purpose 1 phase Bridge rectifier applications

### Marking

K BL4XX

XX: From 005 To 10



### **Limiting Values (Absolute Maximum Rating)**

Item	Symbol	Unit	Conditions	KBL4						
				005	01	02	04	06	08	10
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		50	100	200	400	600	800	1000
Average Rectified Output Current	Io	А	60H <sub>Z</sub> sine wave, R- load, T <sub>a</sub> =75℃	4						
Surge(Non-repetitive)Forward Current	I <sub>FSM</sub>	А	60H <sub>Z</sub> sine wave, 1 cycle, T <sub>a</sub> =25℃	125						
Current Squared Time	l <sup>2</sup> t	A <sup>2</sup> s	1ms≤t < 8.3ms $T_j$ =25°C,Rating of per diode	64.8						
Storage Temperature	T <sub>STG</sub>	$^{\circ}$		-55 ~+150						
Junction Temperature	TJ	$^{\circ}$		-55 ~+150						

#### **Electrical Characteristics** (T<sub>a</sub>=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max	
Peak Forward Voltage	V <sub>FM</sub>	V I <sub>FM</sub> =4A, Pulse measurement, Rating of per diode		1.1	
Peak Reverse Current	rent $I_{RRM}$ $\mu A$ $V_{RM}$ = $V_{RRM}$ , Pulse measurement, Rating o		$V_{\text{RM}}$ = $V_{\text{RRM}}$ , Pulse measurement, Rating of per diode	10	
hermal Resistance	R <sub>0J-A</sub>	°C AA/	Between junction and ambient	13 <sup>(1)</sup>	
	R <sub>θJ-L</sub>	℃W	Between junction and lead	2.4 <sup>(2)</sup>	

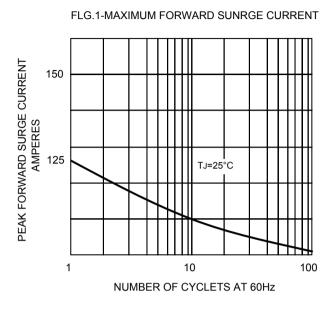
(Notes):

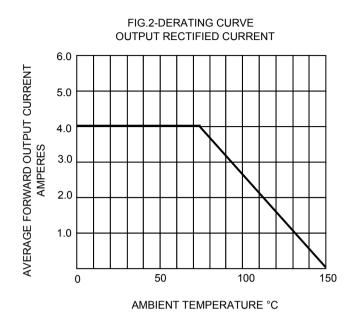
<sup>(1)</sup> Thermal resistance from junction to ambient with units mounted on 3.0\*3.0\*0.11" thick(7.5\*7.5\*0.3cm) aluminum plate

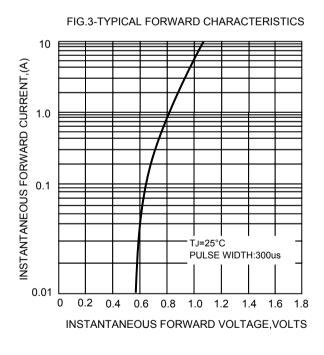
<sup>0.375&</sup>quot;(9.5mm) 0.5\*0.5"(12\*12mm)

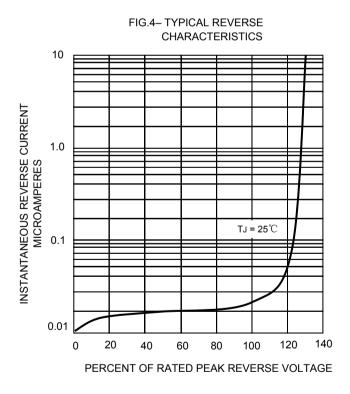
(2) Thermal resistance from junction to lead with units mounted on P.C.B.at 0.375"(9.5mm)lead length and 0.5\*0.5"(12\*12mm) copper pads

### **Typical Characteristics**

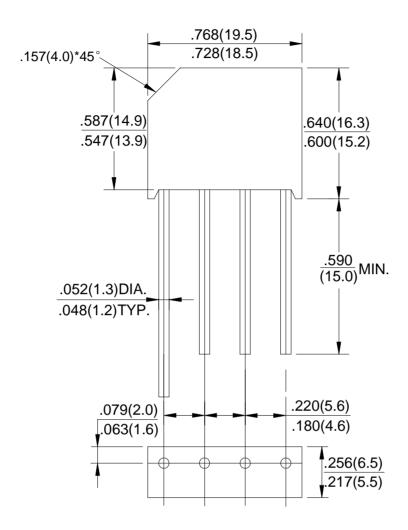








The cruve graph is for reference only, can't be the basis for judgment



Dimensions in inches and (milimeters)

#### NOTICE

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