

**8A Glass Passivated Single-Phase Bridge Rectifier**

**Reverse Voltage - 50 to 1000 V**

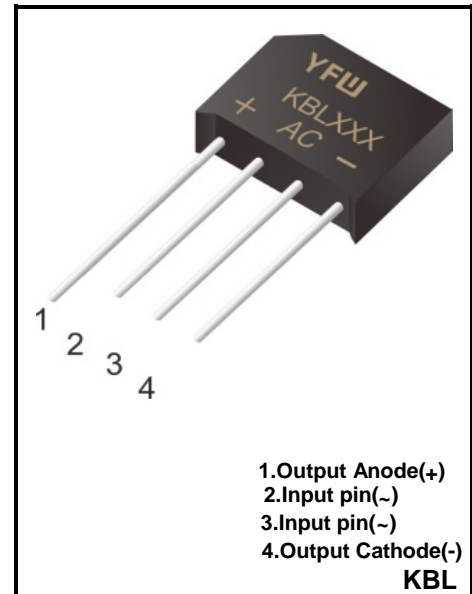
**Forward Current – 8A**

**FEATURES**

- ◆Glass passivated chip
- ◆Low Reverse Leakage Current
- ◆High surge current capability

**MECHANICAL DATA**

- ◆Case: plastic package
- ◆Marking / Polarity: Marked on Body
- ◆Weight: About 4.2grams



**Maximum Ratings and Thermal Characteristics@ Ta = 25℃ unless otherwise noted**

Parameter	Symbols	KBL8005	KBL801	KBL802	KBL804	KBL806	KBL808	KBL810	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Average Forward Output Rectified Current@Ta =85℃	$I_{F(AV)}$	8							A
Forward Voltage Per Leg @ $I_{FM}=8.0A$	$V_F$	1.1							V
Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load	$I_{FSM}$	160							A
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25℃ Ta = 125℃	$I_R$	5 500							uA
Rating for fusing (t<8.3ms)	$i^2_t$	106							A <sup>2</sup> S
Maximum thermal resistance per leg	$R_{\theta JC}$	19							℃/W
Operating Junction and storage temperature range	$T_J, T_{STG}$	-55~150							℃

Note:

1. Junction to case with heatsink
2. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw .

**Ratings And Characteristic Curves**

Fig 1-forwardCurrent derating Curve

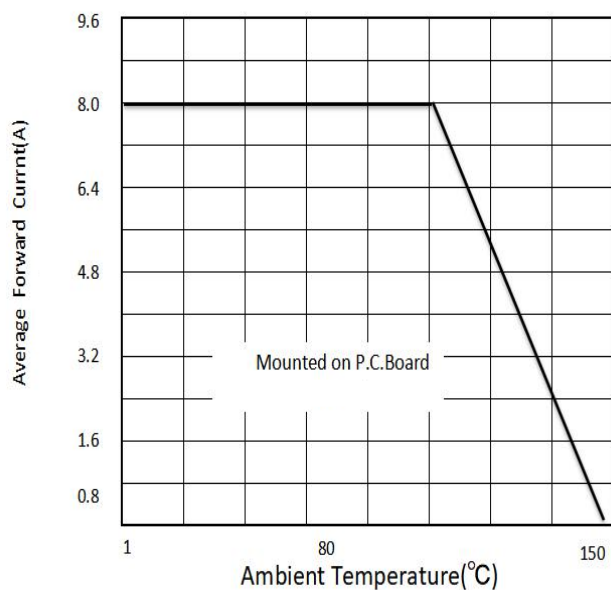


Fig.2-Maximum Non-Repetitive Surge Current

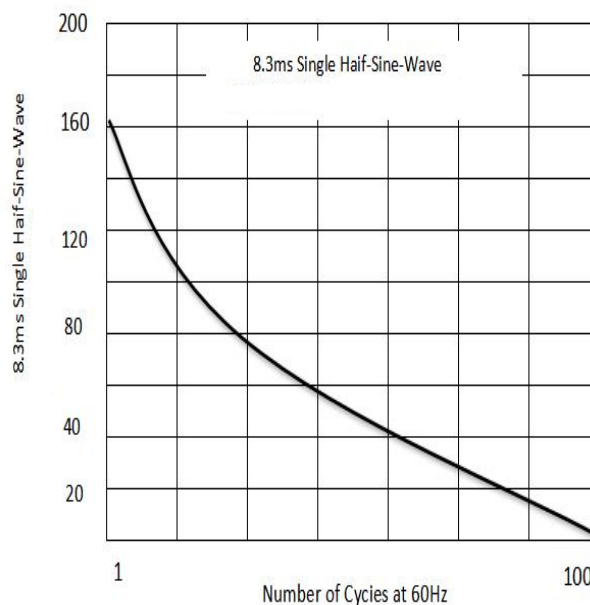


Fig.3-Typical Reverse Characteristics

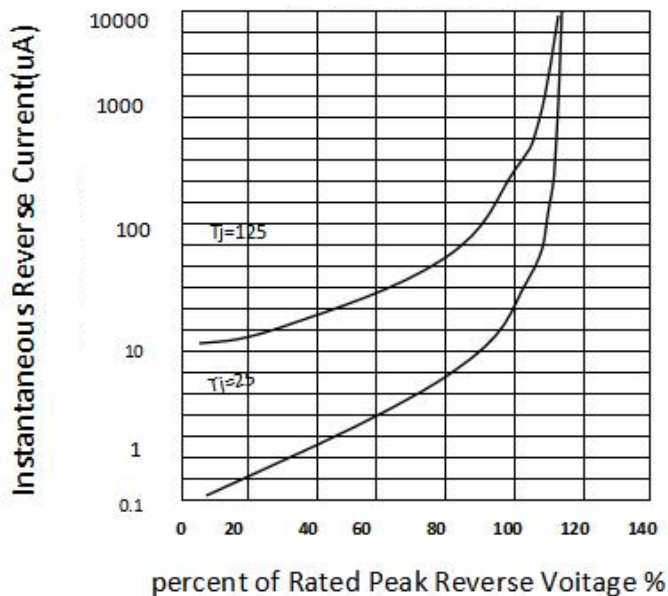
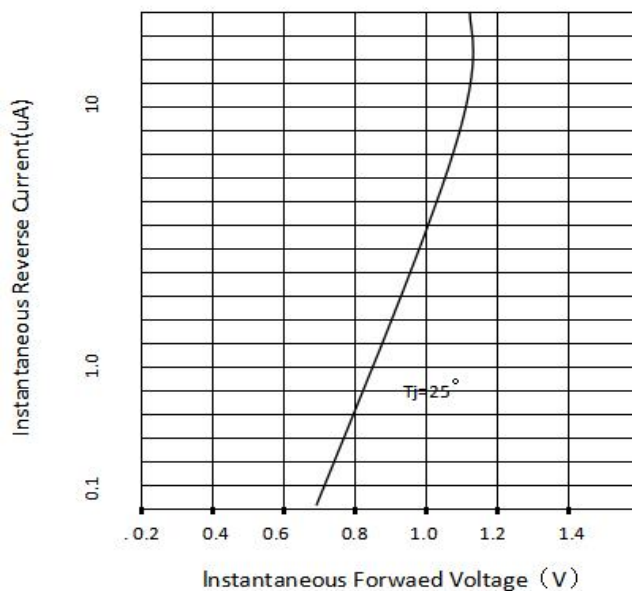
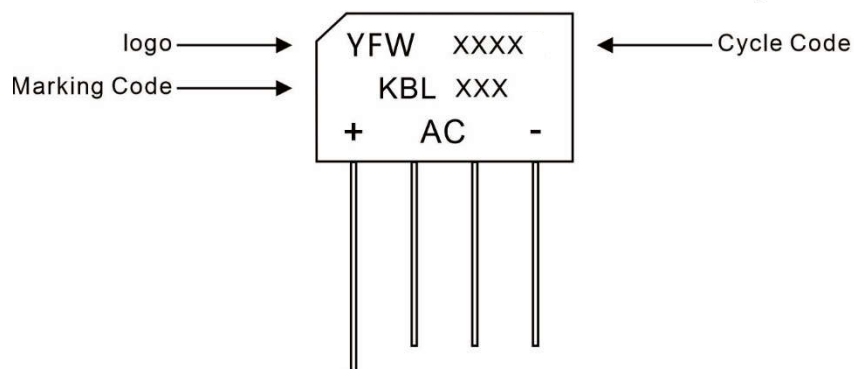


Fig.4-Typical Forward Characteristics



## Marking Diagram



## Ordering information

Package	Packing Description	Packing Quantity
KBL	bulk	500PCS/Box 3000PCS/Carton

## Package Dimensions

### KBL

Dim.	Millimeter(mm)		Dimensions inInch	
	Min.	Max.	Min.	Max.
A	18.5	19.5	0.73	0.77
B	13.9	14.9	0.55	0.59
C	18.0	/	0.71	/
C1	15.0	/	0.59	/
D	5.5	6.5	0.22	0.26
E	4.6	5.6	0.18	0.22
F	1.2	1.3	0.05	0.05
G	15.2	16.3	0.60	0.64
H	1.6	2.0	0.06	0.08

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