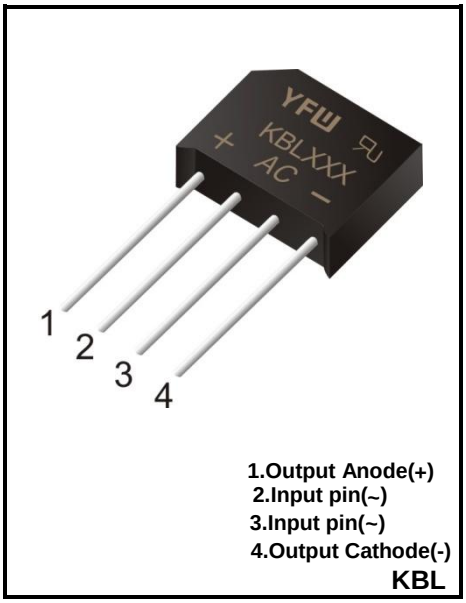
8A Glass Passivated Single-Phase Bridge Rectifier

Reverse Voltage - 50 to 1000 V

Forward Current – 8A



1.Output Anode(+)
2.Input pin(~)
3.Input pin(~)
4.Output Cathode(-)
KBL

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 Ta = 25℃ DC blocking voltage per leg Ta = 125℃	I_R	5 500							uA
Rating for fusing (t<8.3ms)	i^2t	106							A^2S
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 .

Characteristics(Typical)

Fig 1-forwardCurrent derating Curve

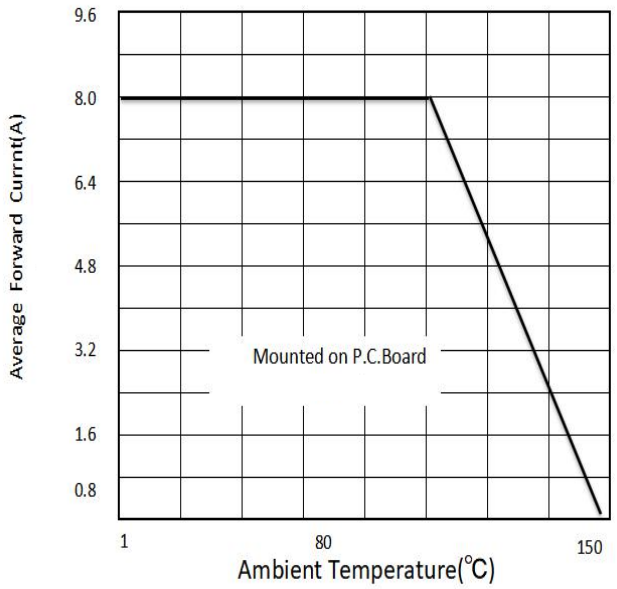


Fig.2-Maximum Non-Repetitive Surge Current

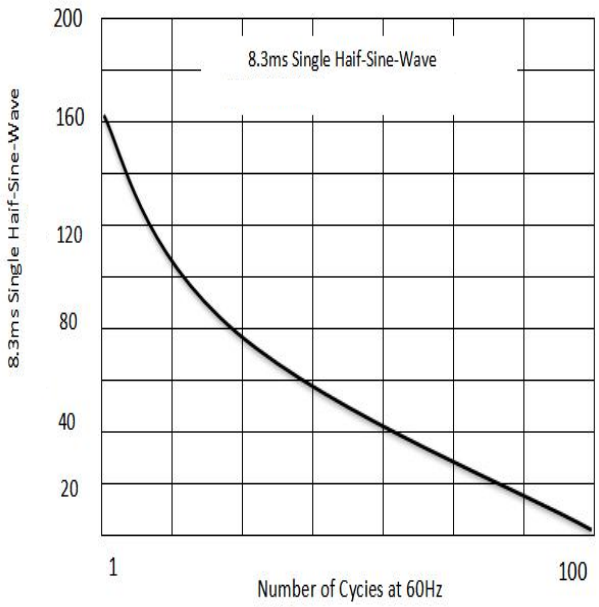


Fig.3-Typical Reverse Characteristics

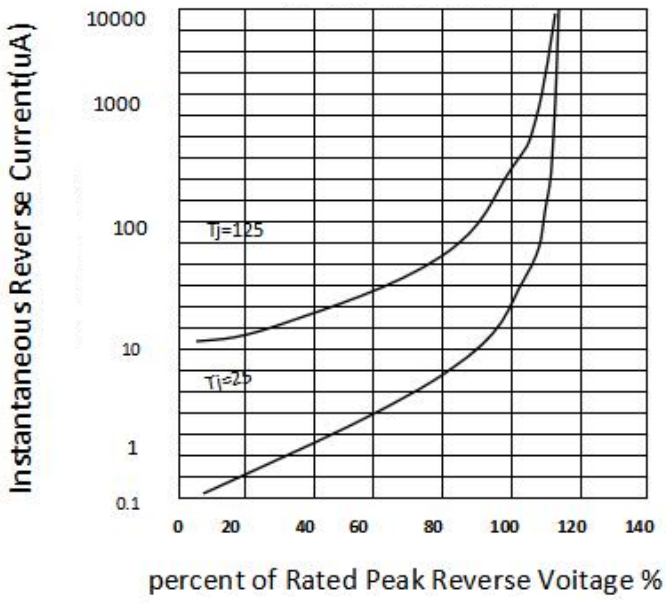
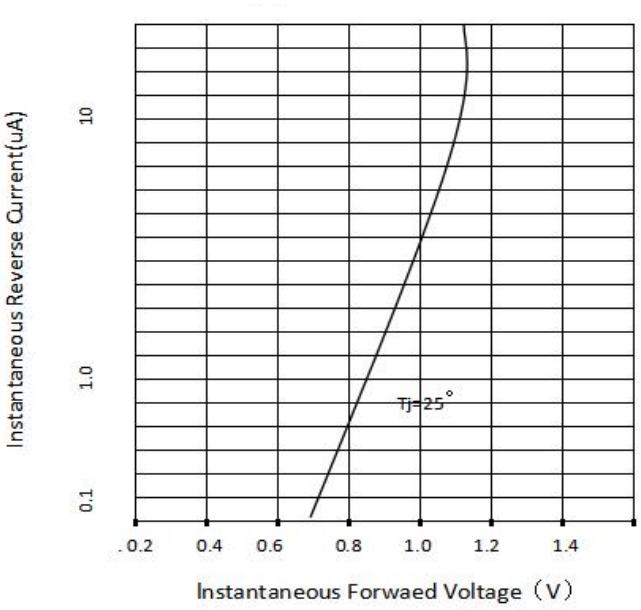
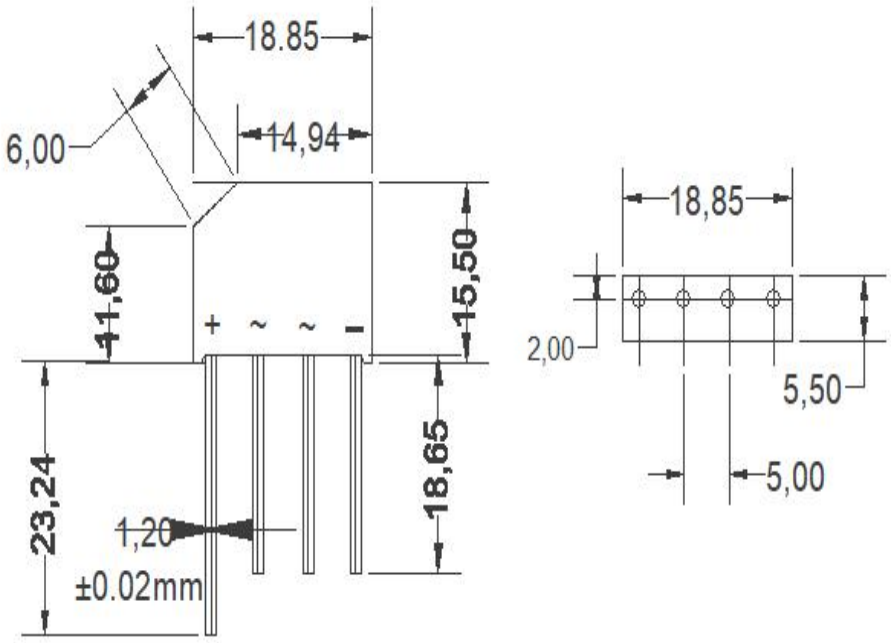


Fig.4-Typical Forwaed Characteristics



Package Outline KBL



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
KBL	BOX	500	EIA-481-1