

## 15A GLASS PASSIVATED BRIDGE RECTIFIER REVERSE

**Voltage - 100 to 1000 V**

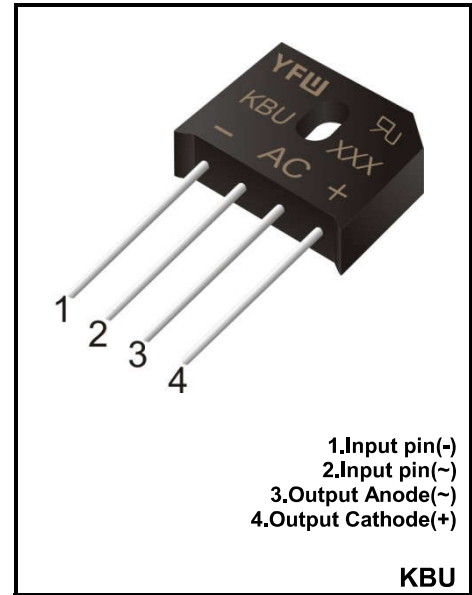
**Forward Current – 15A**

### FEATURES

- ◆ Glass passivated chip
- ◆ Low Reverse Leakage Current
- ◆ High surge current capability
- ◆ Case to Terminal Isolation Voltage 2500V

### MECHANICAL DATA

- ◆ Case: KBU
- ◆ Terminals: Solderable per MIL-STD-202, Method 208
- ◆ Approx. Weight: 8.0g / 0.3oz



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

KBU

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	KBU1501	KBU1502	KBU1504	KBU1506	KBU1508	KBU1510	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_C=85^{\circ}C$	$I_{F(AV)}$	15						A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	320						A
Forward Voltage Per Leg @ $I_{FM}=15.0A$	$V_F$	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5 500						$\mu A$
Rating for Fusing(3ms $\leq t \leq$ 8.3ms)	$I_{2t}$	166						A <sup>2</sup> S
Rms isolation voltage from case to Leads	$C_J$	2500						V
Maximum thermal resistance per leg	$R_{\theta JC}$	4.2						$^{\circ}C/W$
Operating and Storage Temperature Range	$T_J, T_{stg}$	-55 ~ +150						$^{\circ}C$

(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  
图1正向电流降额曲线

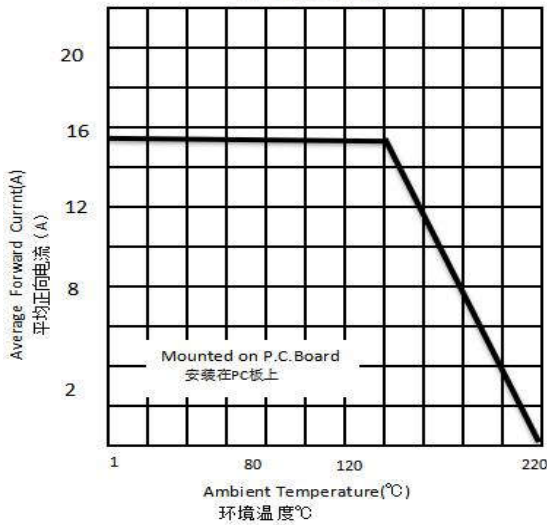


Fig.2-Maximum Non-Repetitive Surge Current

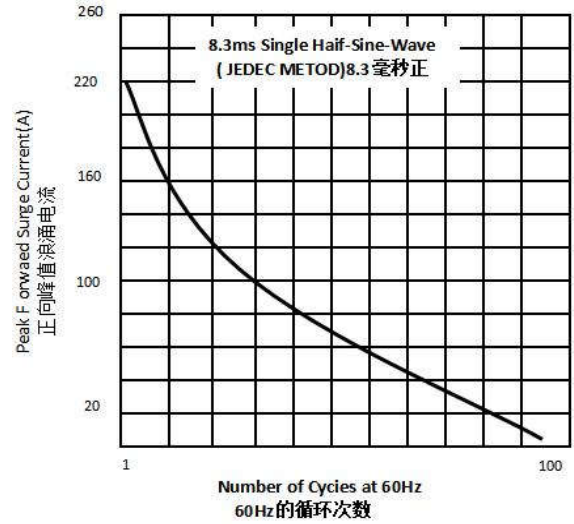


FIG3.Typical Reverse Characteristics

图 3. 典型反向特性

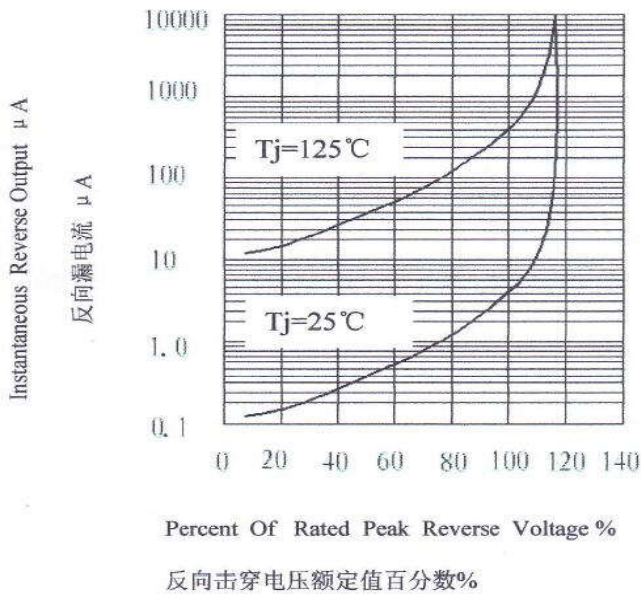
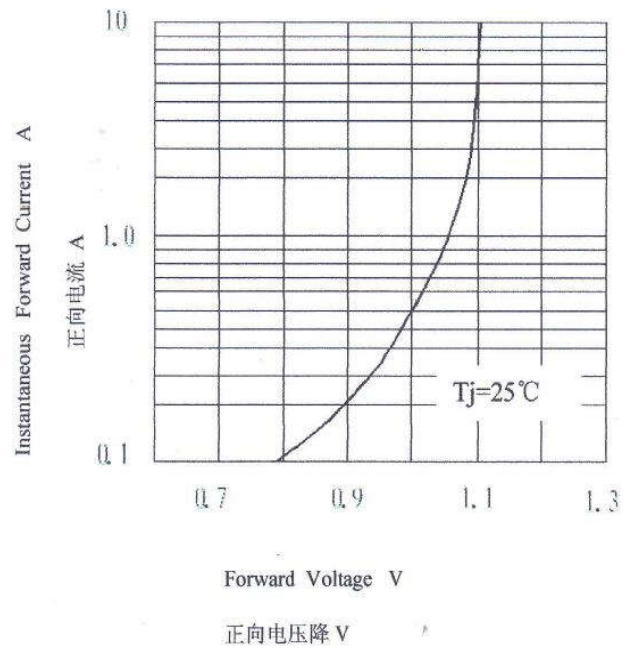


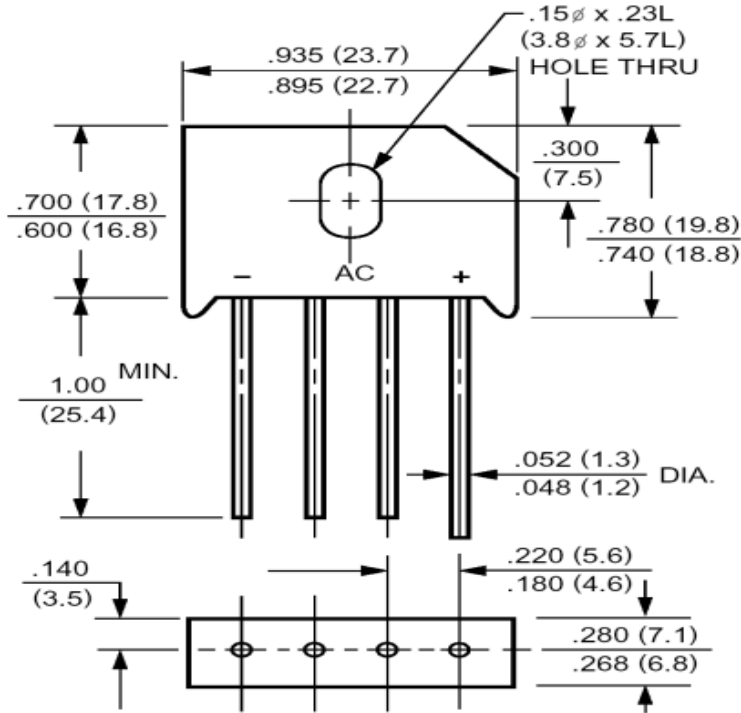
FIG4.Instantaneous Forward Voltage

图 4. 典型正向特性



**Package Outline**

**KBU**



**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
KBU	BOX	400	EIA-481-1

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