

15A GLASS PASSIVATED BRIDGE RECTIFIER REVERSE

Voltage - 100 to 1000 V

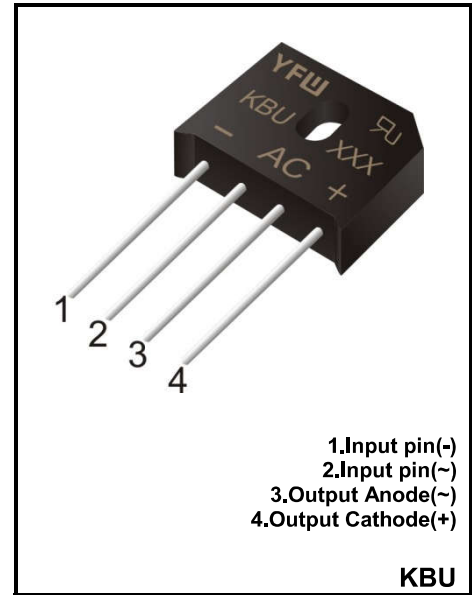
Forward Current – 15A

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						μA
Rating for Fusing(3ms $\leq t \leq$ 8.3ms)	I_{2t}	166						A ² 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

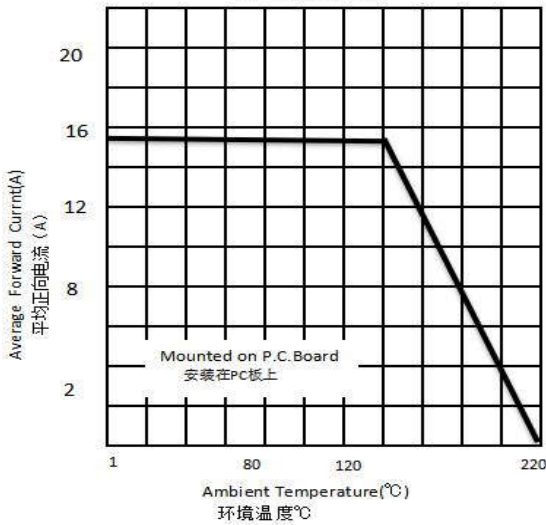


Fig.2-Maximum Non-Repetitive Surge Current

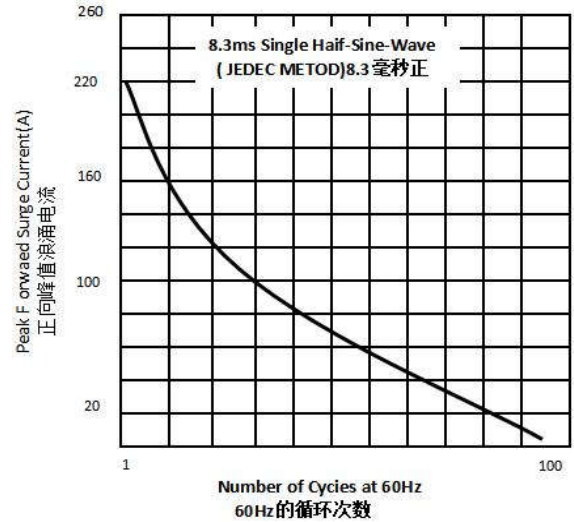


FIG3.Typical Reverse Characteristics

图 3. 典型反向特性

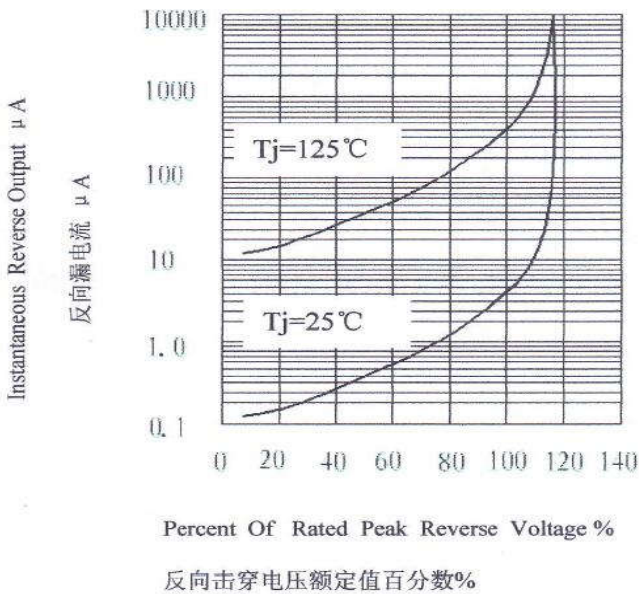
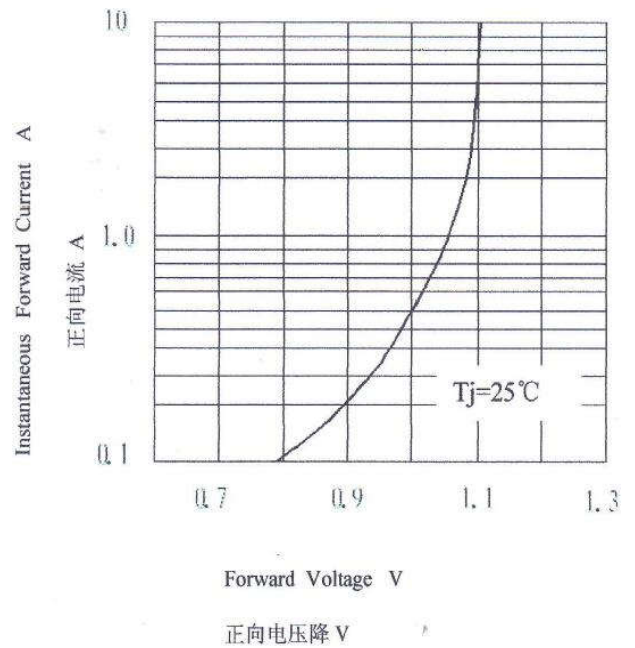


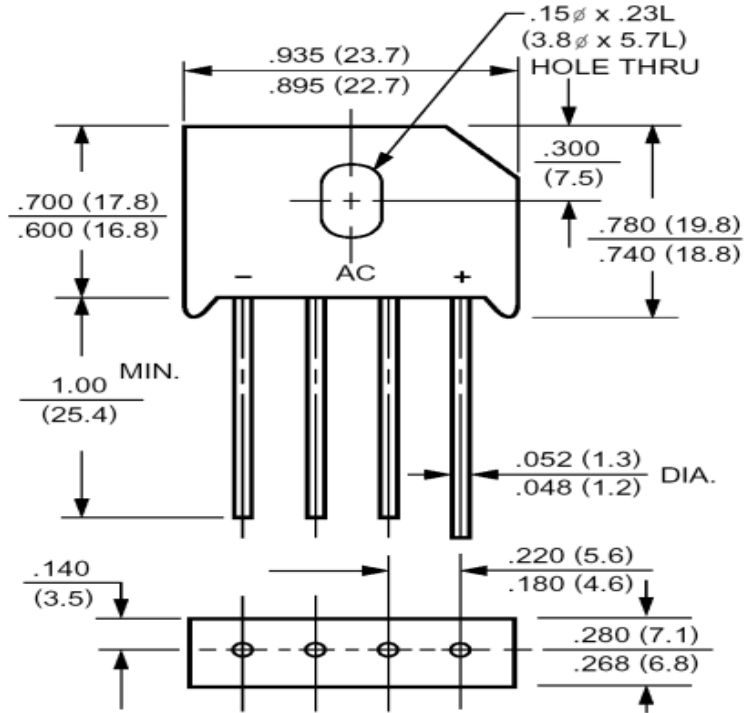
FIG4.Instantaneous Forward Voltage

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