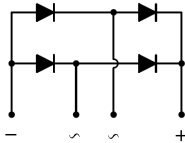
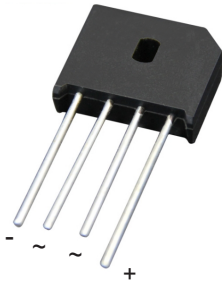


## Glass Passivated Bridge Rectifiers



### Features

- Low Reverse Leakage Current
- High forward surge current capability
- High heat-conducting performance
- Thermal welding performance:  
260 C/10sec

### Applications

- Switching Power Supply
- Home Appliances, Office Devices
- Industrial Auto-equipments

### 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	KBU1010	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	$I_o$	10.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	200	A
$I^2 t$ rating for fusing ( 1ms < $t$ < 8.3ms)	$I^2 t$	166	A <sup>2</sup> S
Maximum Forward Voltage at 10.0 A	VF	1.1	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 500	μA
Typical Junction Capacitance (Note1)	Cj	70	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C
Maximum thermal resistance per leg(Note 2)	RθJC	4.2	°C/W

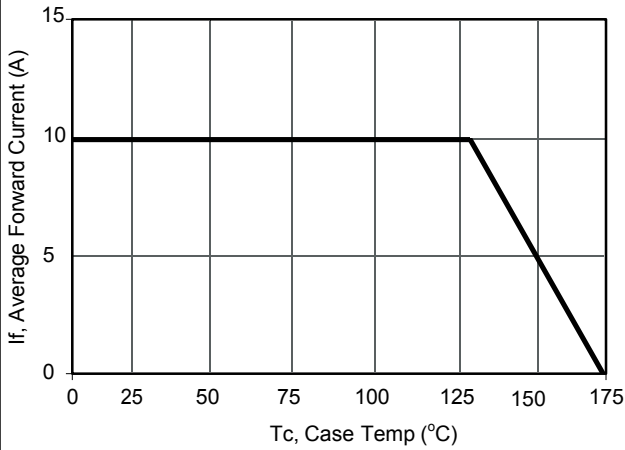
Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

Unit mounted on glass-epoxy substrate with 1oz/ft<sup>2</sup> 20x20 mm copper pad per pin with heatsink

## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Forward Current Derating Curve



Current Derating, Case

Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

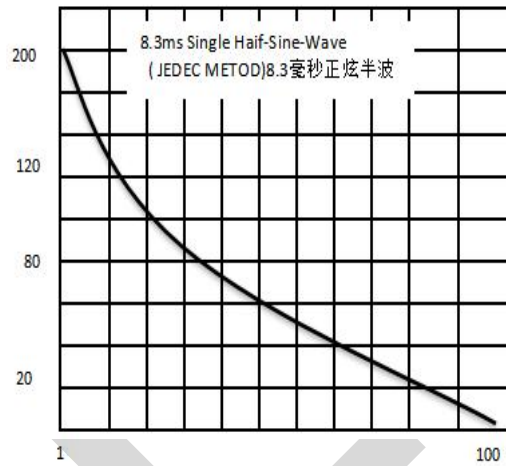


Fig.3 Typical Reverse Characteristics

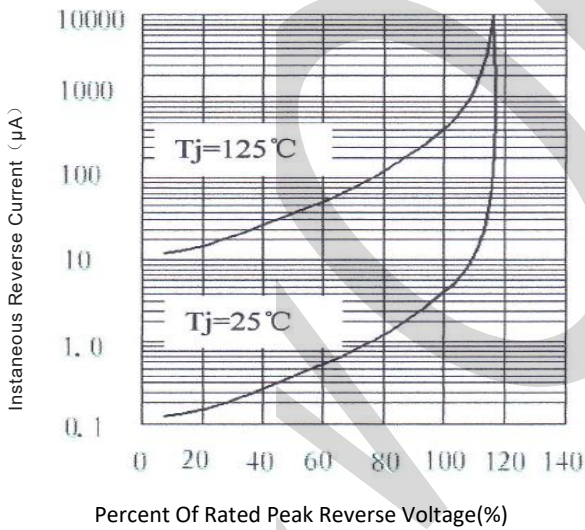
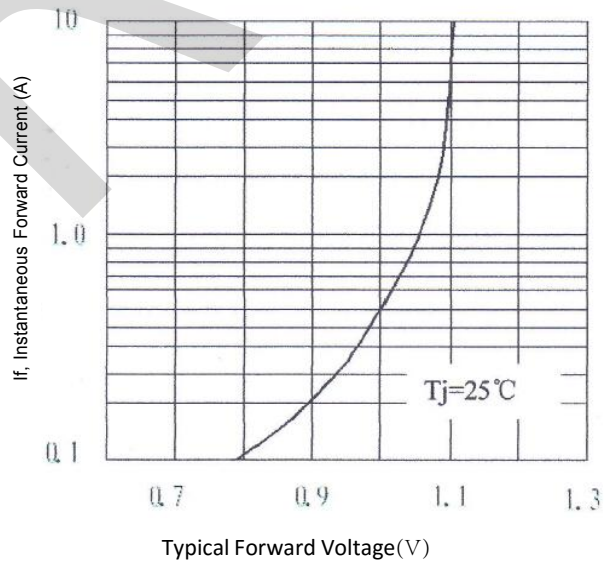
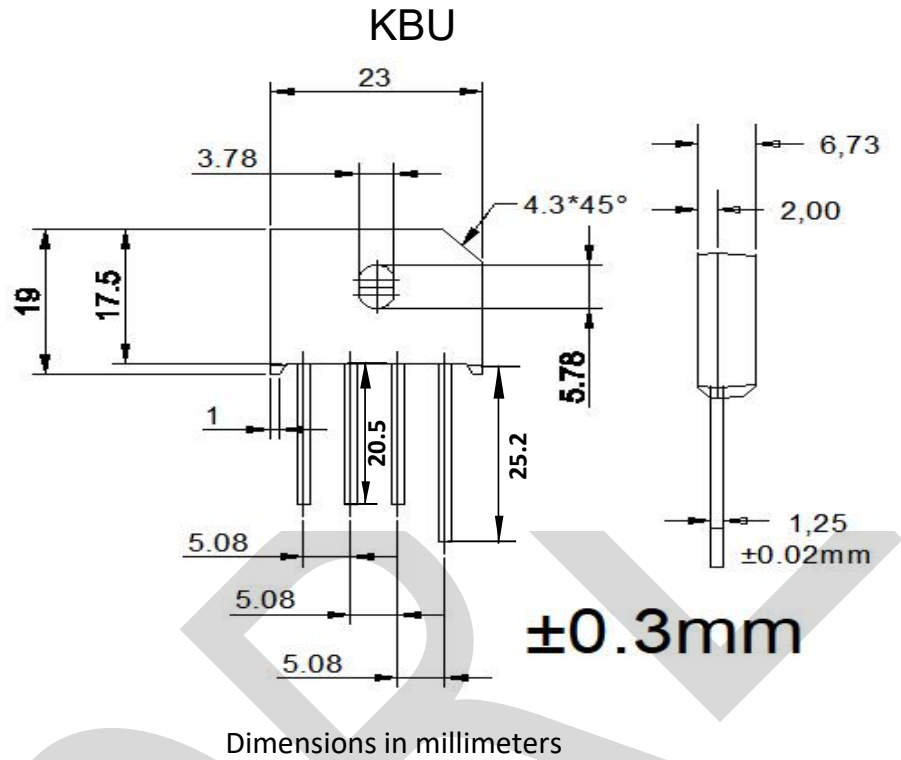


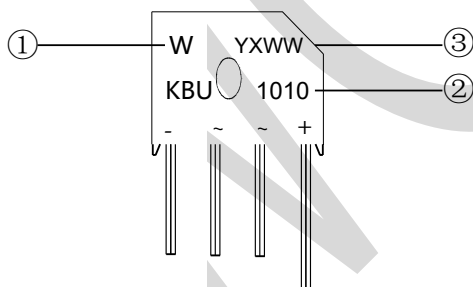
Fig.4 Typical Instantaneous Forward Characteristics



## PACKAGE OUTLINE DIMENSIONS



## Marking Information



①W: Company's trademark

②Product model : KBU1010

③PDC information :

Y X WW H

H:Halogen-free

WW:Week code(01 to 53)

X:Internal identification code

Y:Year code(ex:0=2020)