

KBU8005G THRU KBU810G

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 8.0 Amperes

Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0

Mechanical Data

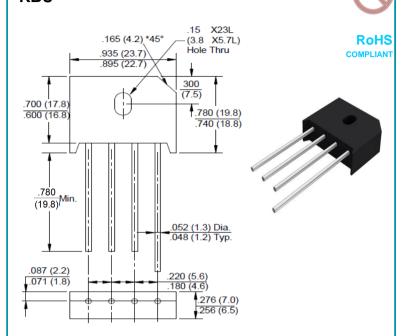
- Polarity: Symbol marked on body
- Mounting position: Any

Note: Products with logo or or are made by HY Electronic (Cayman) Limited.

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

KBU



Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Unit
	Syllibol	8005G	801G	802G	804G	806G	808G	810G	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Tc=100 °C	I(AV)	8.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	175							А
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	129.1							A ² s
Peak Forward Voltage per Diode at 4.0A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @TJ=25°C	lr	10							μА
DC Blocking Voltage per Diode @TJ=100°C	IK.	100							
Typical Junction Capacitance Per Diode (Note1)	CJ	250							pF
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}\!\mathbb{C}$

Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. The typical data above is for reference only

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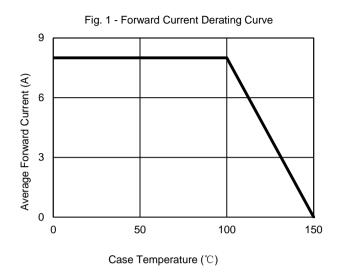
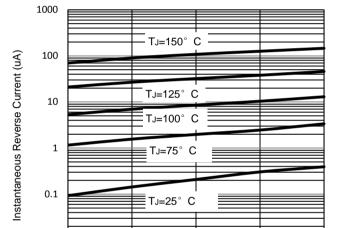


Fig. 2 - Maximum Non-Repetitive Surge Current 200 180 8.3mS Single Half-Sine-Wave (JEDEC METOD) Peak Forward Surge Current (A) 160 140 120 100 80 60 40 20 0 10 1 100 Number of Cycles at 60Hz



60

Percent of Rated Peak Reverse Voltage (%)

Fig. 3 - Typical Reverse Characteristics

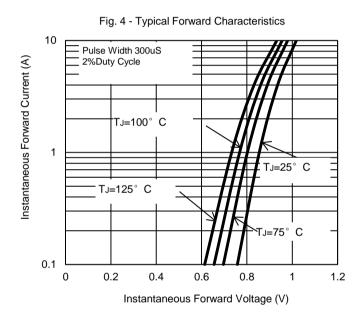
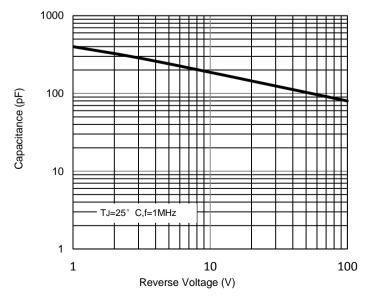


Fig. 5 - Typical Junction Capacitance



100

The curve above is for reference only.

0.01

20

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