

KBU6005G THRU KBU610G

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes

Features

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

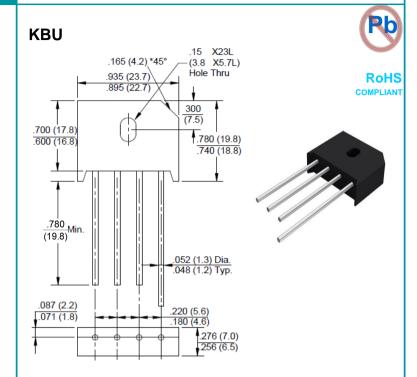
Mechanical Data

- 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.



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
	Symbol	6005G	601G	602G	604G	606G	608G	610G	
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 $^{\circ}$ C	I(AV)	6.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	150							Α
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	93.4							A ² s
Peak Forward Voltage per Diode at 3.0A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @Tj=25 $^{\circ}$ C	lr	10 100							μΑ
DC Blocking Voltage per Diode @TJ=100℃	IK								
Typical Junction Capacitance Per Diode (Note1)	Cl	260							pF
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$
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Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2. The typical data above is for reference only

KBU6*G-B-N00/99-00/01 Rev. 11, 18-May-2020



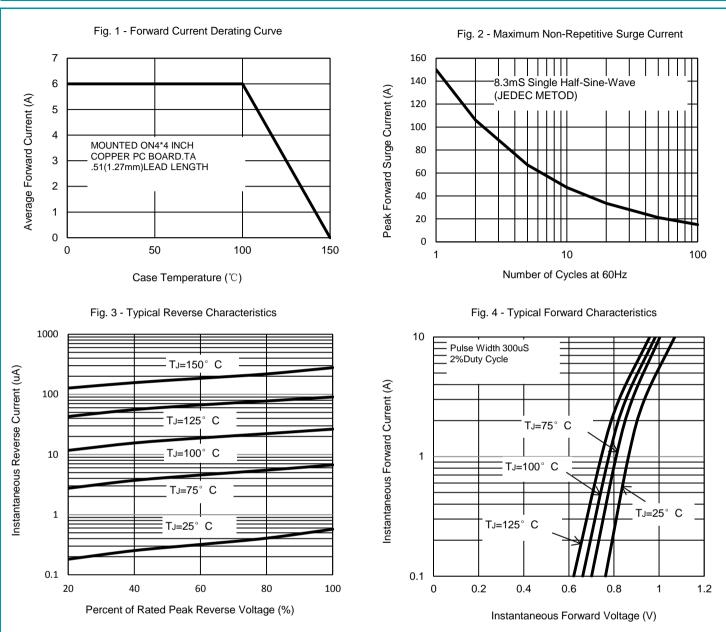
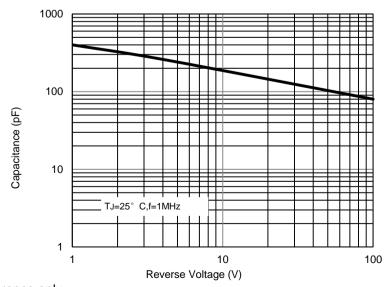


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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