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

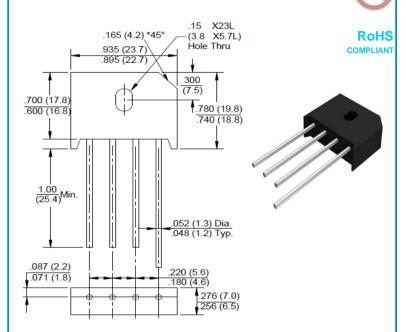
- Polarity: Symbol marked on body
- Mounting position: Any

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%.

Symbol	KBU	KBU	KBU	KBU	KBU	KBU	KBU	Unit
Symbol	8005G	801G	802G	804G	806G	808G	810G	
Vrrm	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
I(AV)	8.0							Α
Icon	175							А
IFSIVI								
l ² t	129.1						A ² s	
VF	1.1							V
ln.	10							μА
IK							μΑ	
Cl	250							pF
TJ	-55 to +150							$^{\circ}$
Тѕтс	-55 to +150							$^{\circ}$
	VRMS VDC I(AV) IFSM I ² t VF IR CJ	Symbol 8005G	Symbol 8005G 801G VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM I ² t VF IR CJ TJ TJ	Symbol 8005G 801G 802G VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 I(AV) IFSM I²t VF IR CJ TJ	Symbol 8005G 801G 802G 804G VRRM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 I(AV) 8.0 IFSM 175 I^2t 129.1 VF 1.1 IR 100 CJ 250 TJ -55 to +150	Symbol 8005G 801G 802G 804G 806G VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 I(AV) 8.0 IFSM 175 VF 1.1 IR 10 CJ 250 TJ -55 to +150	Symbol 8005G 801G 802G 804G 806G 808G VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 8.0 IFSM 175 VF 1.1 IR 10 CJ 250 TJ -55 to +150	Symbol 8005G 801G 802G 804G 806G 808G 810G VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 I(AV) 8.0 175 129.1 100 11 100 1

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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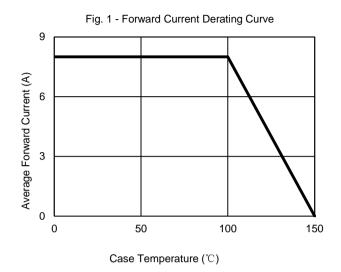
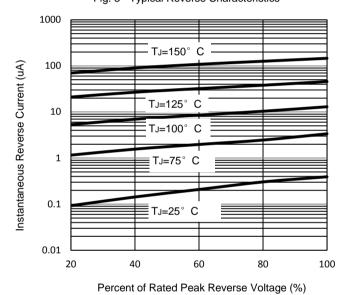


Fig. 2 - Maximum Non-Repetitive Surge Current 200 180 8.3mS Single Half-Sine-Wave (JEDEC METOD) Peak Forward Surge Current (A) 160 140 120 100 80 60 40 20 0 10 1 100 Number of Cycles at 60Hz

Fig. 3 - Typical Reverse Characteristics



Pulse Width 300uS 2%Duty Cycle

TJ=100° C

TJ=125° C

TJ=75° C

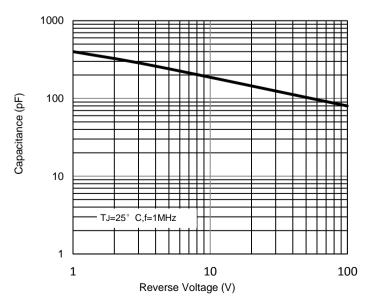
0.1

0 0.2 0.4 0.6 0.8 1 1.2

Instantaneous Forward Voltage (V)

Fig. 4 - Typical Forward Characteristics

Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

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Rev. 11, 18-May-2020



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