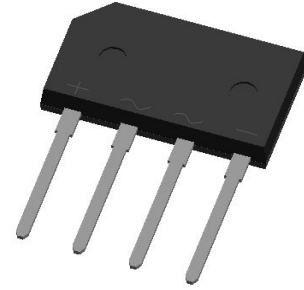


## Bridge Rectifiers

### Features

- UL recognition, file #E230084
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

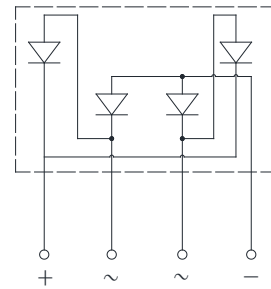


### Typical Applications

General purpose use in AC/DC bridge full wave rectification for switching power supply, home appliances, office equipment, industrial automation applications.

### Mechanical Data

- **Package:** 2KBJ  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body



### ■ Maximum Ratings (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610
Device marking code			GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>a</sub> =25°C	I <sub>O</sub>	A	6.0						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T <sub>j</sub> =25°C	IFSM	A	150						
Current squared time @1ms≤t≤8.3ms T <sub>j</sub> =25°C, rating of per diode	I <sup>2</sup> t	A <sup>2</sup> S	93						
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150						
Junction temperature	T <sub>j</sub>	°C	-55 ~+150						

### ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	IFM=3A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>RRM</sub>	μA	V <sub>RM</sub> =V <sub>RRM</sub>	5						

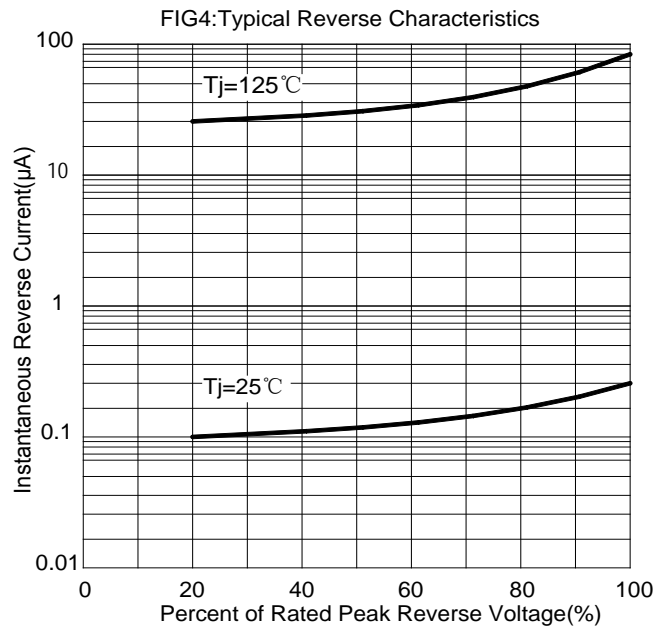
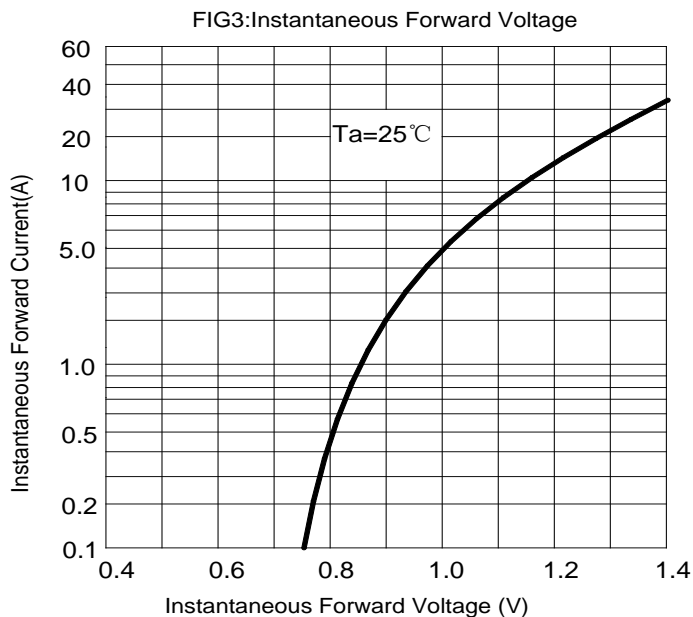
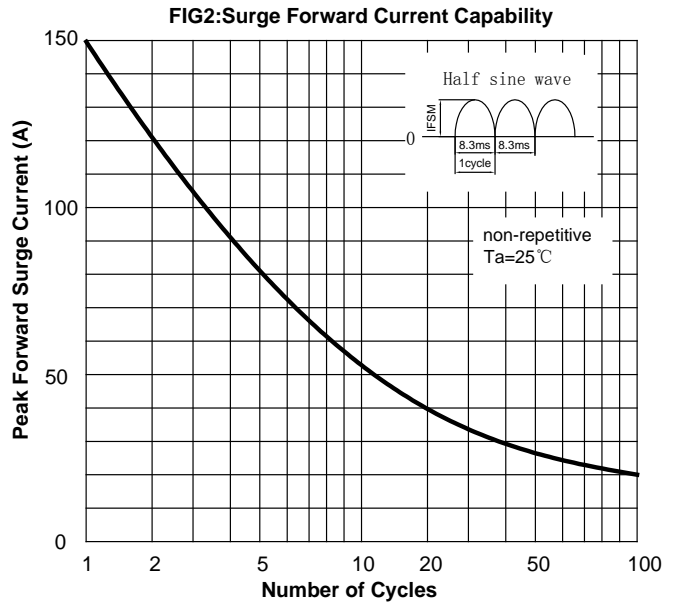
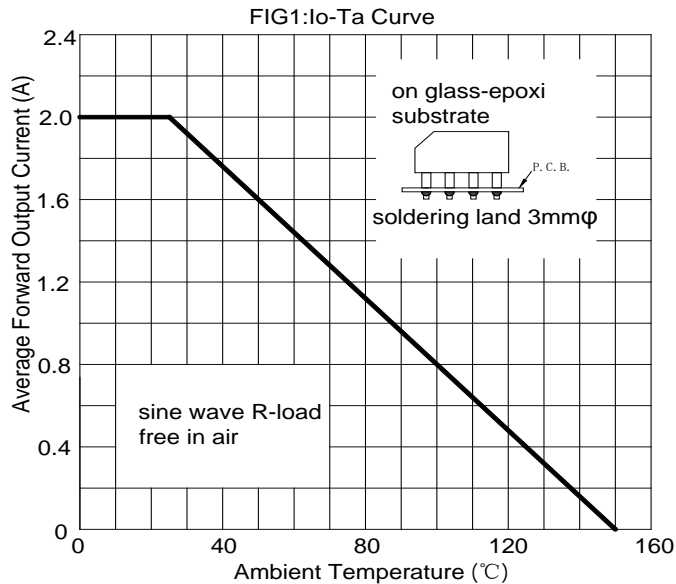
■ **Thermal Characteristics** ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	$^\circ\text{C/W}$	47						
	Between junction and case,	$R_{\theta J-C}$		10						

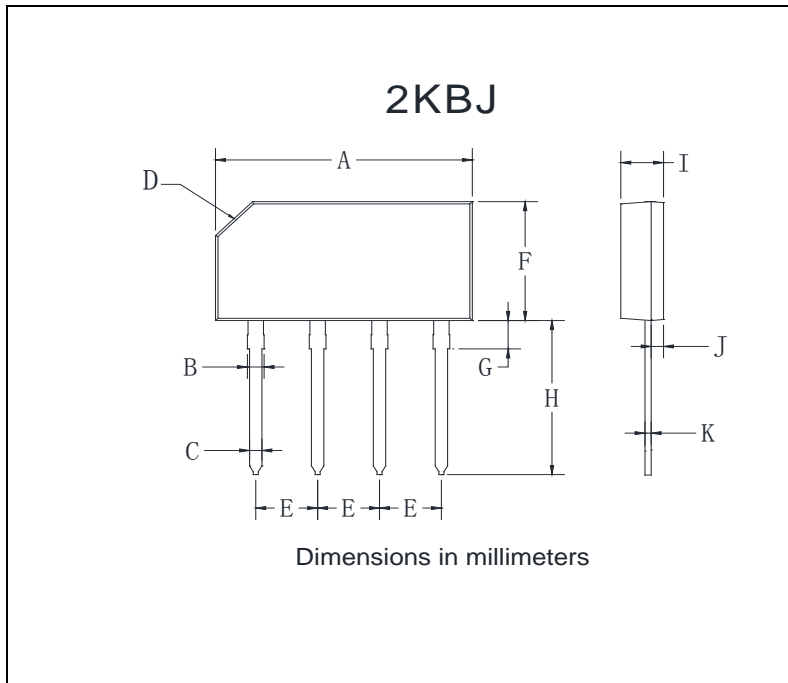
■ **Ordering Information (Example)**

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBL6005-GBL610	B1	Approximate 2.19	22	1320	5280	Tube
GBL6005-GBL610	A1	Approximate 2.19	250	250	6000	Paper Box

■ **Characteristics(Typical)**



■ Outline Dimensions



2KBJ		
Dim	Min	Max
A	19.2	21.2
B	1.2	1.8
C	1.0	1.2
D	Typ: 3.0	
E	4.9	5.1
F	10.5	11.5
G	2.0	3.0
H	13.0	15.0
I	3.0	4.0
J	0.9	1.1
K	0.4	0.6

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