

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_a=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	٧	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Ta =25°C	lo	Α	6.0						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Tj=25℃	IFSM	Α	150						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	l ² t	A ² S	93						
Storage temperature	Tstg	°C	-55 ~+150						
Junction temperature	Tj	$^{\circ}$ C	-55 ~+150						

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=3A				1.00			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						

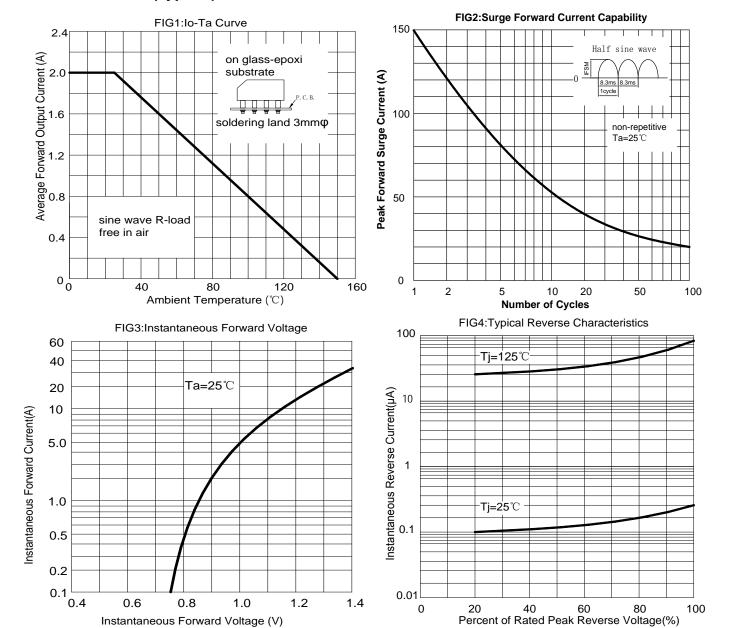
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

	PARAMETER	SYMBOL	UNIT	GBL6005	GBL601	GBL602	GBL604	GBL606	GBL608	GBL610	
Thermal	Between junction and ambient	RøJ-A	сw	° AM 47			47				
Resistance	Between junction and case,	R ₀ J-C	10								

■Ordering Information (Example)

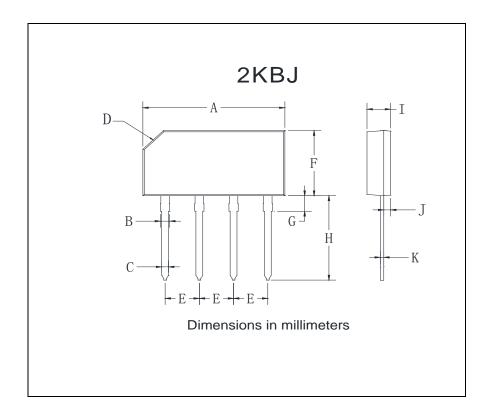
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBL6005-GBL610	B1	Approximate 2.19	22	1320	5280	Tube
GBL6005-GBL610	A1	Approximate 2.19	250	250	6000	Paper Box

■ Characteristics(Typical)





■ Outline Dimensions



2KBJ						
Dim	Min	Max				
Α	19.2	21.2				
В	1.2	1.8				
С	1.0	1.2				
D	Тур: 3.0					
E	4.9	5.1				
F	10.5	11.5				
G	2.0	3.0				
Н	13.0	15.0				
I	3.0	4.0				
J	0.9	1.1				
K	0.4	0.6				



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