

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBL4005	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410
Device marking code			GBL4005	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410
Maximum Repetitive Peak Reverse Voltage	VRRM	٧	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Ta =25°C	IO A 4.0								
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			135						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	IFSM	Α	250						
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	l²t	A ² S	62.5						
Dielectric strength @ terminals to case, AC 1 minute	Vdis	KV	2						
Storage temperature	T _{stg}	°C	-55 ~ +150						
Junction temperature	Tj	°C	-55 ~ +150						

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

Electrical Orlandeteristics (14-25 C Orlicos otherwise specifica)										
PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBL4005	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode			T _j =25℃	T _j =25°C 5						
		μΑ	T _j =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	e 38						

GBL4005 THRU GBL410

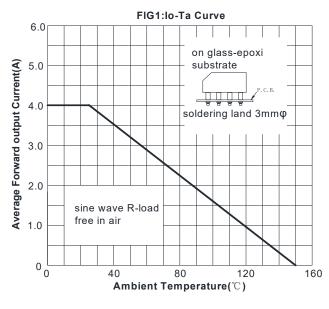
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

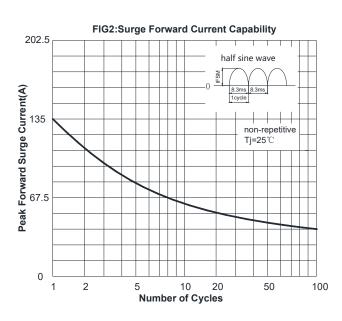
PARAMETER		SYMBOL	UNIT	GBL4005	GBL401	GBL402	GBL404	GBL406	GBL408	GBL410
Thermal	Between junction and ambient	R ₀ J-A	°C/W	47						
Resistance	Between junction and case	R ₀ J-C	C/VV				10			

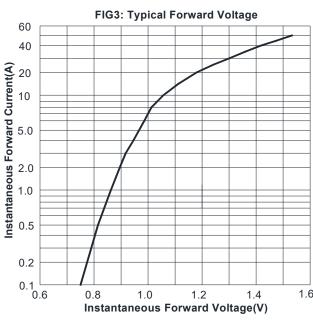
■Ordering Information (Example)

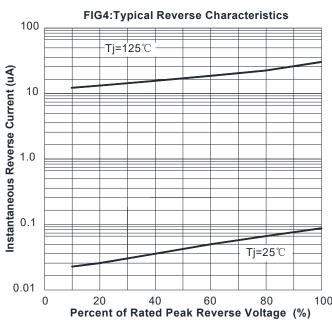
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBL4005 - GBL410	B1	Approximate 2.19	22	1320	5280	Tube

■ Characteristics(Typical)





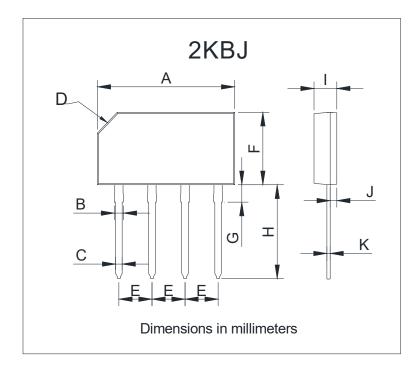






GBL4005 THRU GBL410

■ Outline Dimensions



2KBJ						
Dim	Min	Max				
Α	19.2	21.2				
В	1.2	1.8				
С	1.0	1.2				
D	Typ: 3.0					
Е	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				



GBL4005 THRU GBL410

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