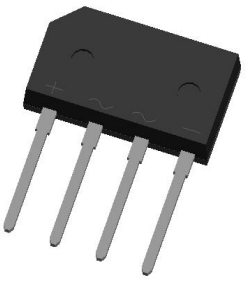
Bridge Rectifiers

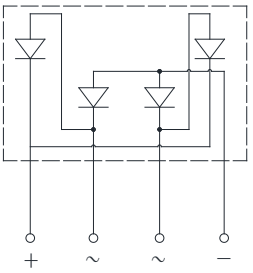
Features

- 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_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	GBL3005	GBL301	GBL302	GBL304	GBL306	GBL308	GBL310
Device marking code			GBL3005	GBL301	GBL302	GBL304	GBL306	GBL308	GBL310
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T_a =25℃	I_O	A	3.0						
Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, T_j=25℃	I_{FSM}	A	90						
Current squared time @1ms≤t<8.3ms Tj=25℃,rating of per diode	I^2t	A^2S	33						
Storage temperature	Tstg	℃	-55 ~+150						
Junction temperature	Tj	℃	-55 ~+150						

■Electrical Characteristics（T_a=25℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBL3005	GBL301	GBL302	GBL304	GBL306	GBL208	GBL210
Maximum instantaneous forward voltage drop per diode	VF	V	I_{FM}=1.5A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM}	μA	V_{RM}=V_{RRM}	5						

■Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	GBL3005	GBL301	GBL302	GBL304	GBL306	GBL308	GBL310
Thermal Resistance	Between junction and ambient	RθJ-A	℃/W	47						
	Between junction and case,	RθJ-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
GBL3005-GBL310	B1	Approximate 2.19	22	1320	5280	Tube
GBL3005-GBL310	A1	Approximate 2.19	250	250	6000	Paper Box

■ Characteristics(Typical)

FIG1:Io-Ta Curve

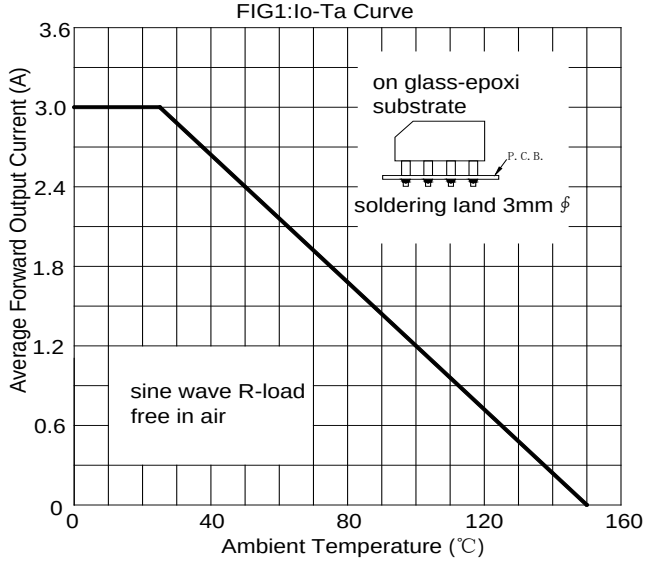


FIG2:Surge Forward Current Capability

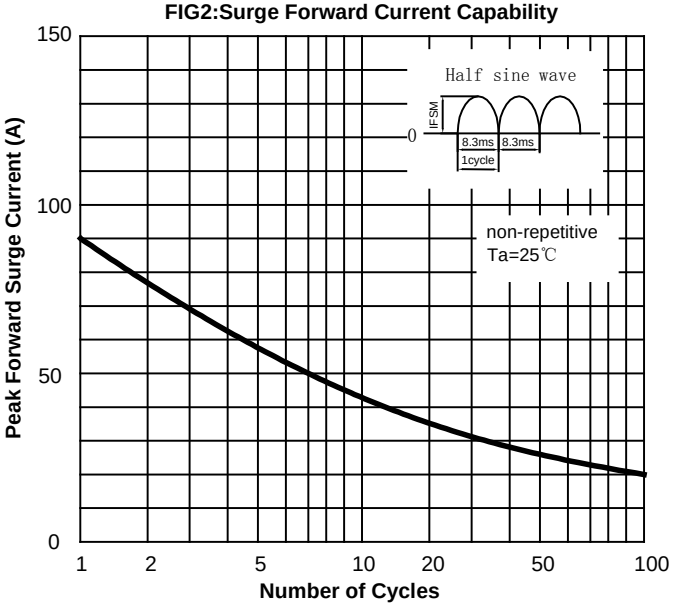


FIG3:Instantaneous Forward Voltage

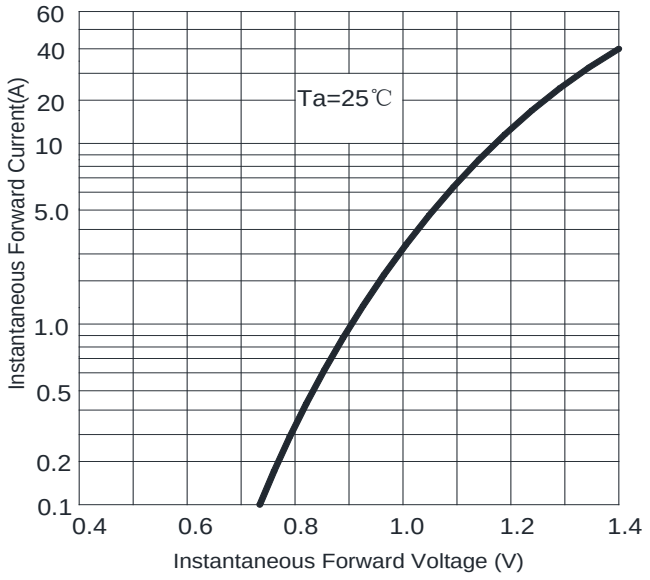
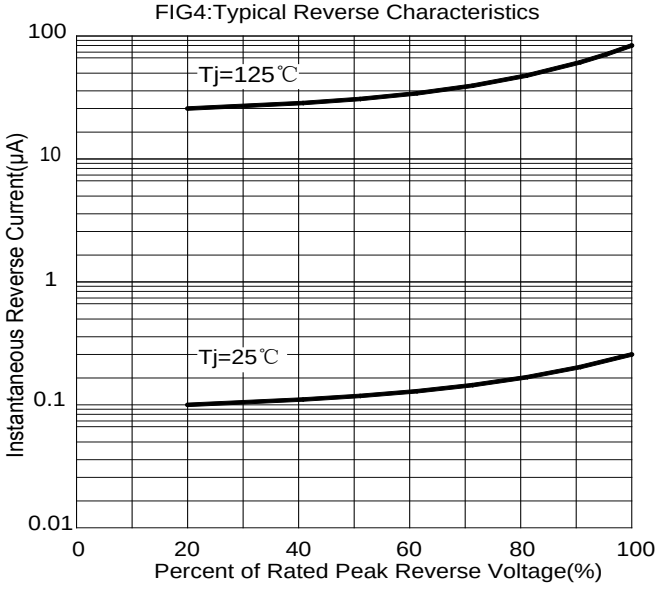
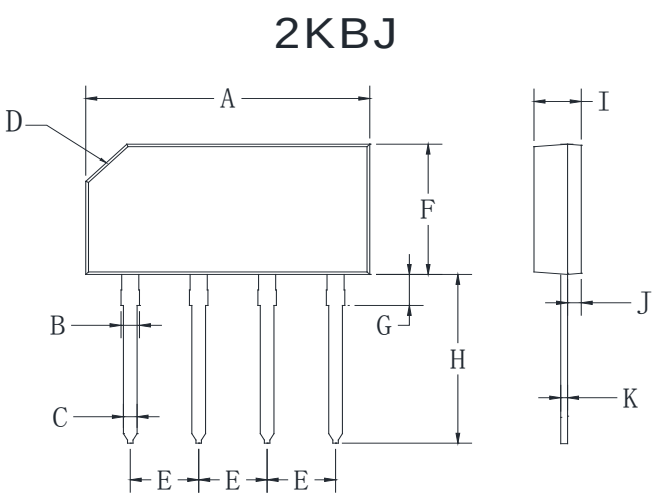


FIG4:Typical Reverse Characteristics



■ Outline Dimensions



Dimensions in millimeters

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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