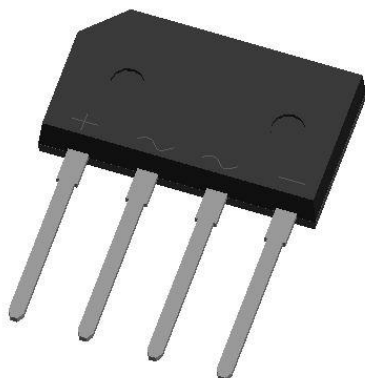


Bridge Rectifiers

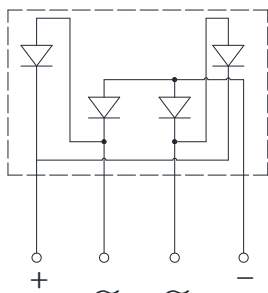


Features

- 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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GBJ2005	GBJ201	GBJ202	GBJ204	GBJ206	GBJ208	GBJ210
Device marking code			GBJ2005	GBJ201	GBJ202	GBJ204	GBJ206	GBJ208	GBJ210
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, Ta =25°C	IO	A	2.0						
Surge(non-repetitive)forward current @60HZ half-sine wave, 1 cycle, Tj=25°C	IFSM	A	90						
Current squared time @1ms≤t<8.3ms Tj=25°C, rating of per diode	I ² t	A ² S	33						
Storage temperature	Tstg	°C	-55 ~+150						
Junction temperature	Tj	°C	-55 ~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ2005	GBJ201	GBJ202	GBJ204	GBJ206	GBJ208	GBJ210
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5						

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

PARAMETER		SYMBOL	UNIT	GBJ2005	GBJ201	GBJ202	GBJ204	GBJ206	GBJ208	GBJ210
Thermal Resistance	Between junction and ambient	$R_{\theta JA}$	℃/W	47.0						
	Between junction and case,	$R_{\theta JC}$		10.0						

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ2005-GBJ210	B1	Approximate 2.19	22	1320	5280	Tube

■ Characteristics (Typical)

FIG1:Io-Ta Curve

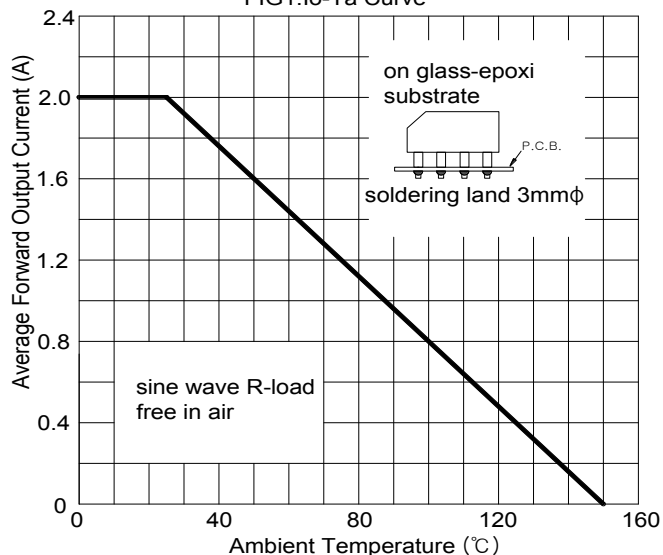


FIG2:Surge Forward Current Capability

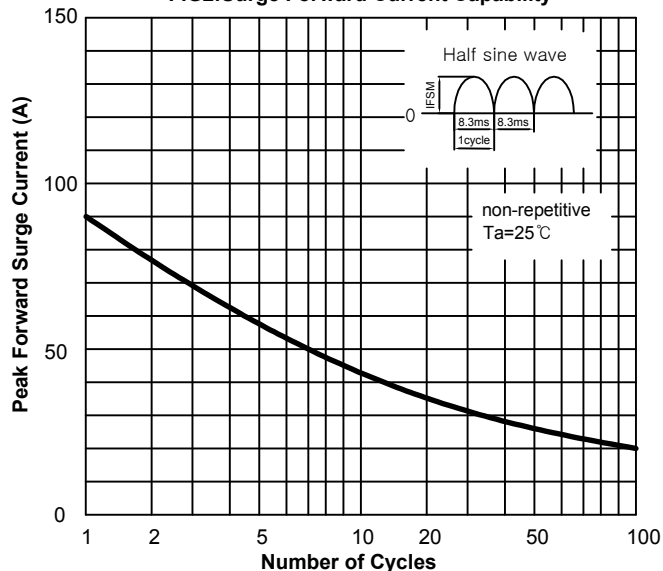


FIG3:Instantaneous Forward Voltage

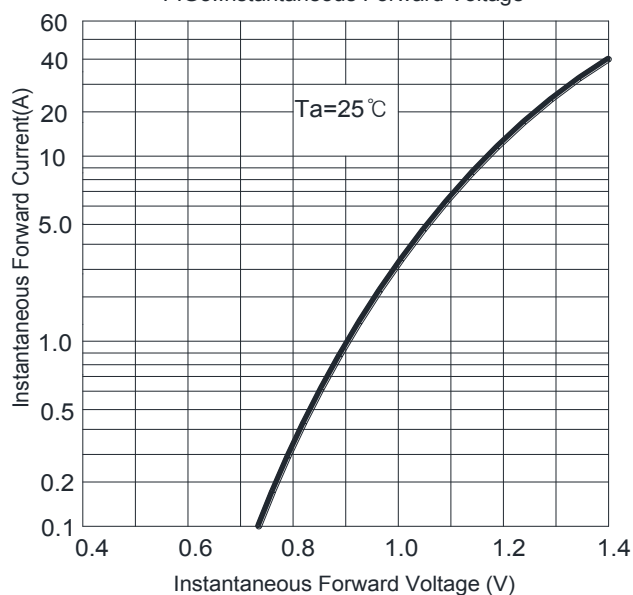
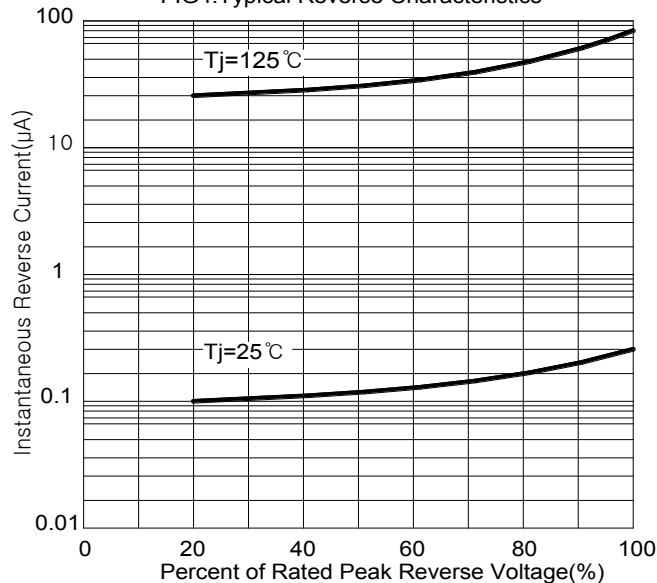
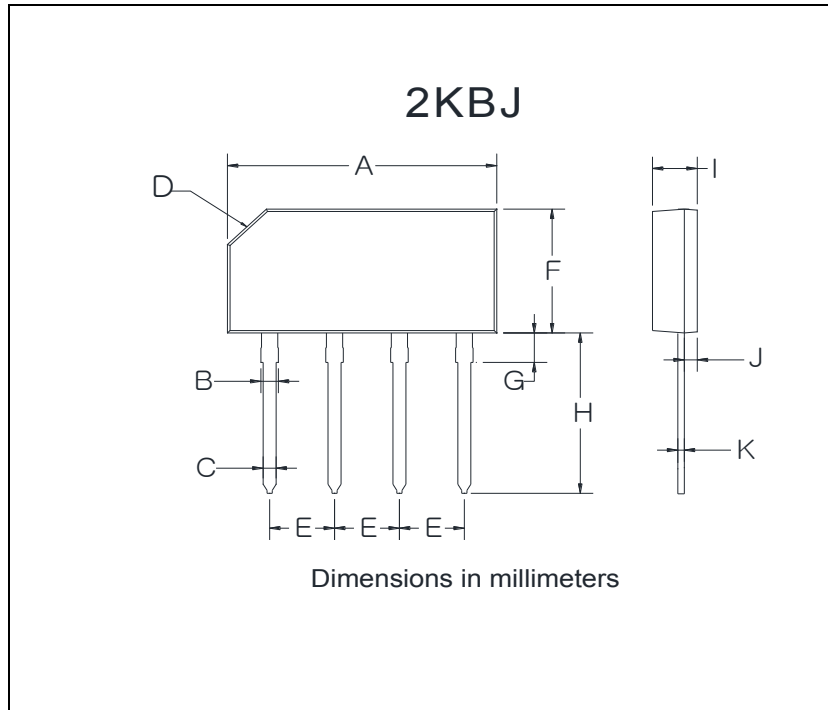


FIG4:Typical Reverse Characteristics



■ 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