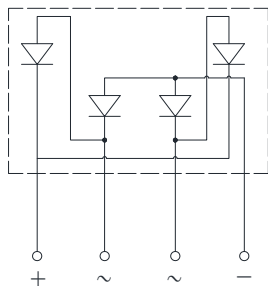
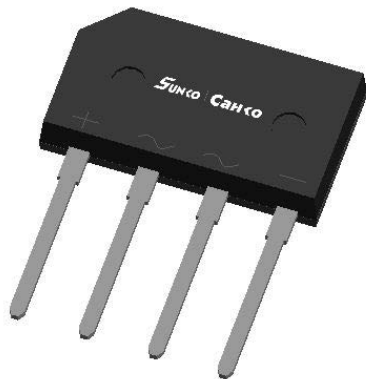


Bridge Rectifiers



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, -
- **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	GBJ4005	GBJ401	GBJ402	GBJ404	GBJ406	GBJ408	GBJ410
Device marking code			GBJ4005	GBJ401	GBJ402	GBJ404	GBJ406	GBJ408	GBJ410
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, T _a =25°C	I _O	A	4.0						
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25°C	I _{FSM}	A	135						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			250						
Current squared time @1ms≤t≤8.3ms T _j =25°C, rating of per diode	I ² t	A ² S	62.5						
Dielectric strength @ terminals to case, AC 1 minute	V _{dis}	KV	2						
Storage temperature	T _{stg}	°C	-55 ~ +150						
Junction temperature	T _j	°C	-55 ~ +150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GBJ4005	GBJ401	GBJ402	GBJ404	GBJ406	GBJ408	GBJ410
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =2.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C	5						
			T _j =125°C	100						
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	38						

GBJ4005 THRU GBJ410

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

PARAMETER		SYMBOL	UNIT	GBJ4005	GBJ401	GBJ402	GBJ404	GBJ406	GBJ408	GBJ410
Thermal Resistance	Between junction and ambient	R _{θJ-A}	°C/W	47						
	Between junction and case	R _{θJ-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
GBJ4005-GBJ410	B1	Approximate 2.19	22	1320	5280	Tube

■ Characteristics(Typical)

FIG1:I_o-T_a Curve

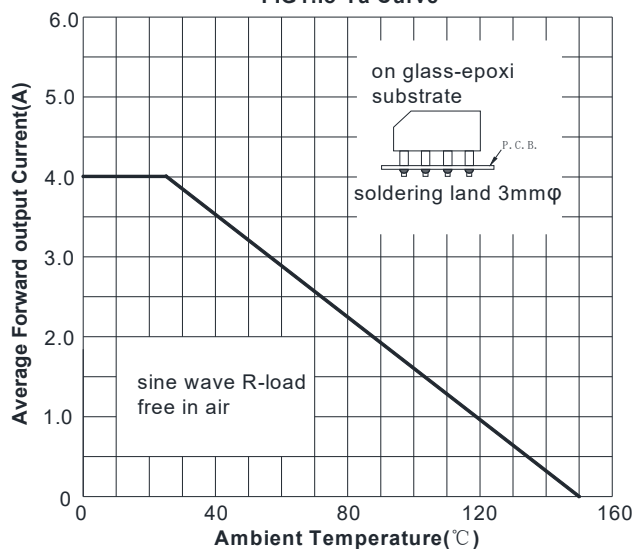


FIG2:Surge Forward Current Capability

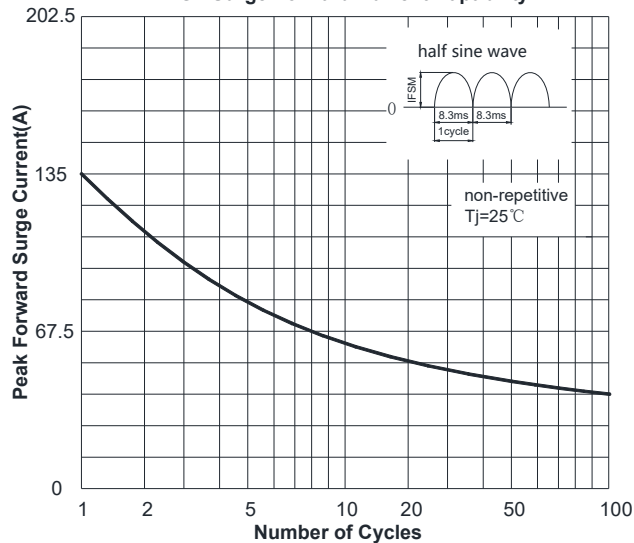


FIG3: Typical Forward Voltage

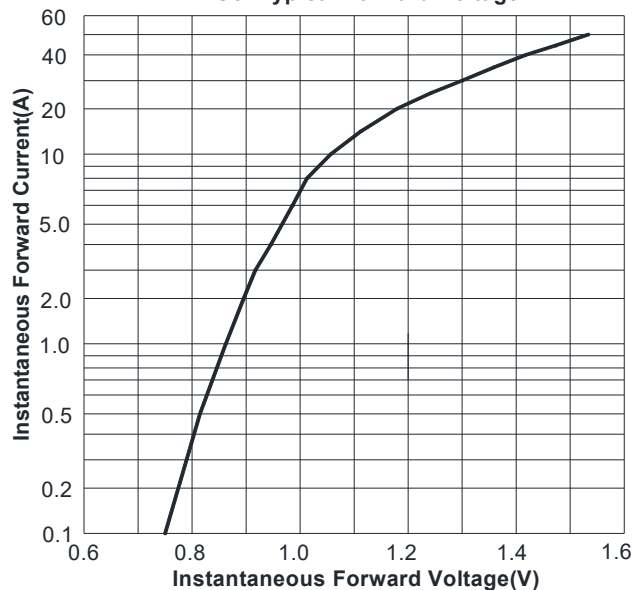
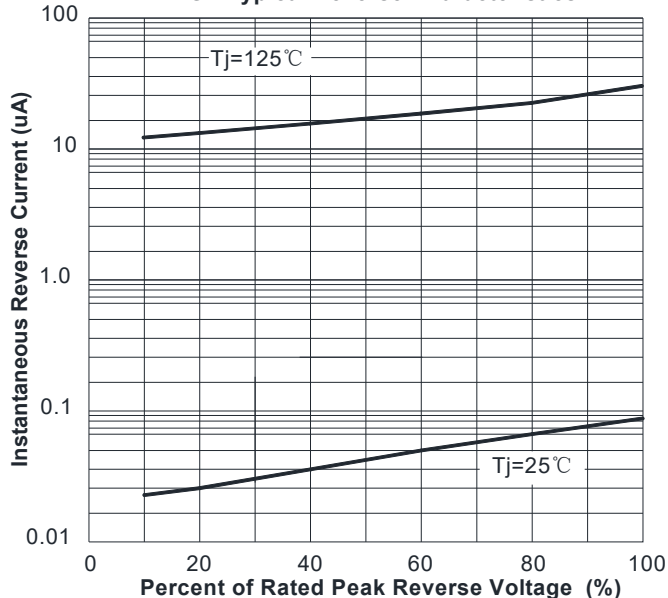
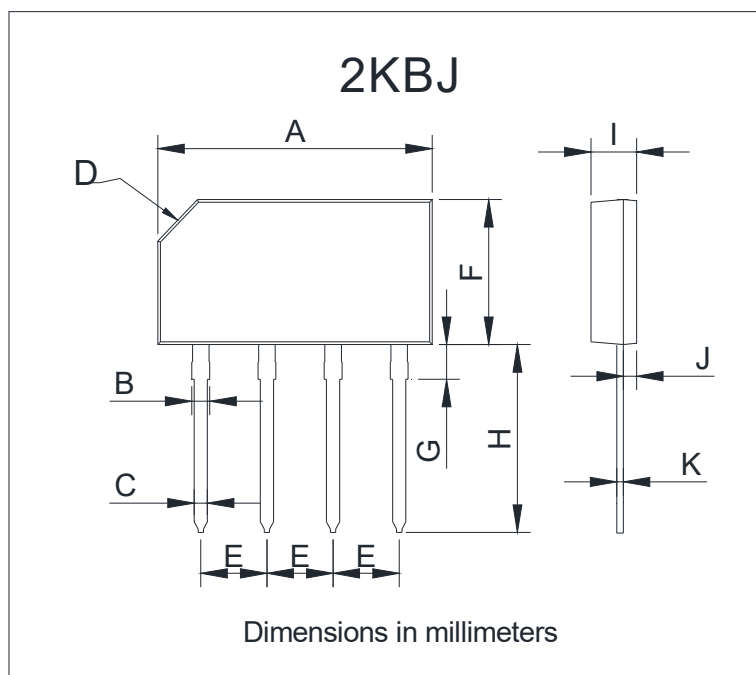


FIG4:Typical Reverse Characteristics



■ 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

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