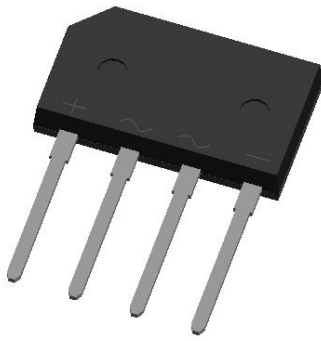


Fast Recovery Bridge Rectifiers

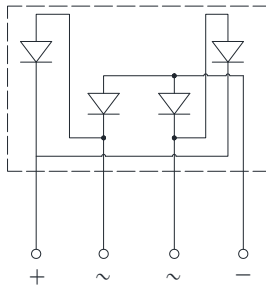


Features

- 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, 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	RGBL408	RGBL410
Device marking code			RGBL408	RGBL410
Maximum Repetitive Peak Reverse Voltage	VRRM	V	800	1000
Maximum RMS Voltage	VRMS	V	560	700
Maximum DC blocking Voltage	VDC	V	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	IFSM	A	130	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			260	
Current squared time @1ms≤t<8.3ms Tj=25°C, rating of per diode	I ² t	A ² S	70	
Dielectric strength @ terminals to case, AC 1 minute	Vdis	KV	2	
Storage temperature	Tstg	°C	-55 ~ +150	
Junction temperature	Tj	°C	-55 ~ +150	



RGBL408 THRU RGBL410

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RGBL408	RGBL410
Maximum reverse recovery time	T_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	500	
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=2.0A$	1.3	
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25^\circ C$	5	
			$T_j=125^\circ C$	100	
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	32	

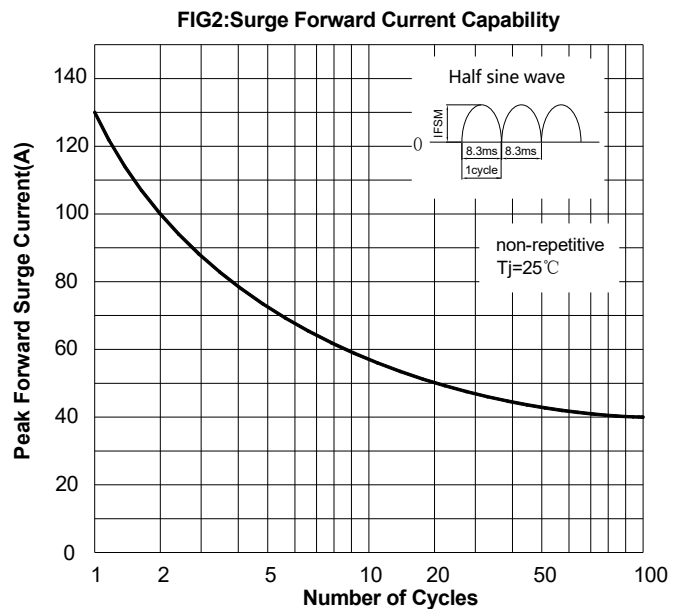
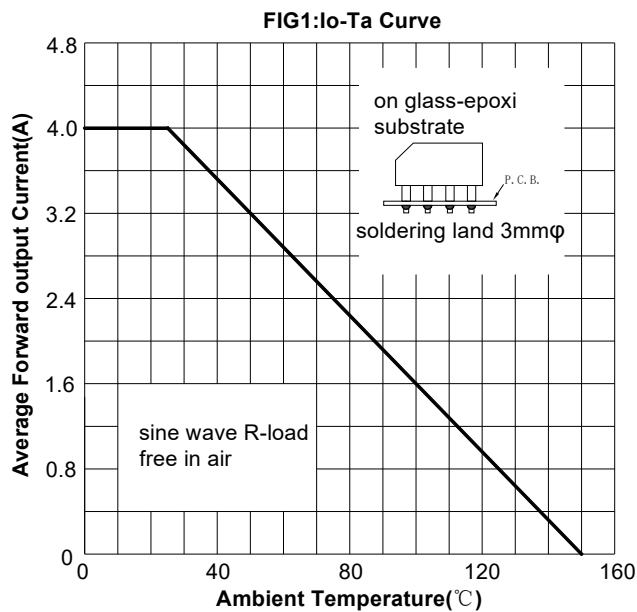
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	RGBL408	RGBL410
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	$^\circ C/W$	47	
	Between junction and case	$R_{\theta J-C}$		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
RGBL408- RGBL410	B1	Approximate 2.19	22	1320	5280	Tube

■ Characteristics (Typical)





RGBL408 THRU RGBL410

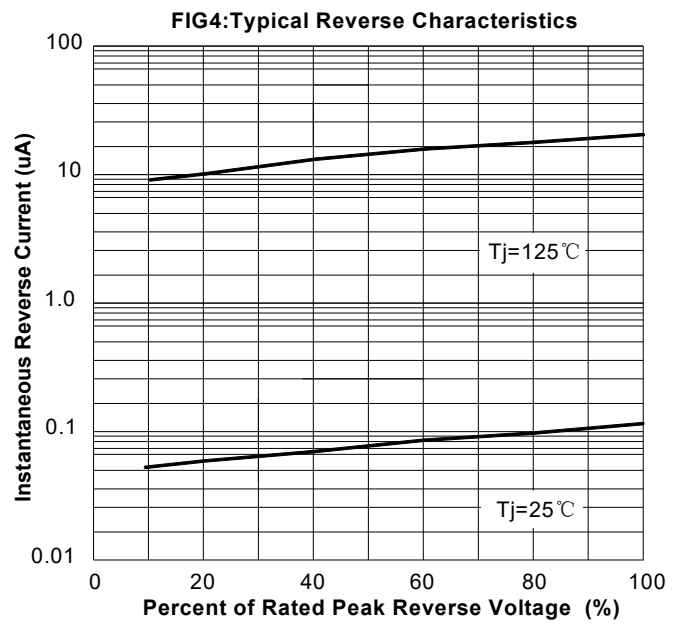
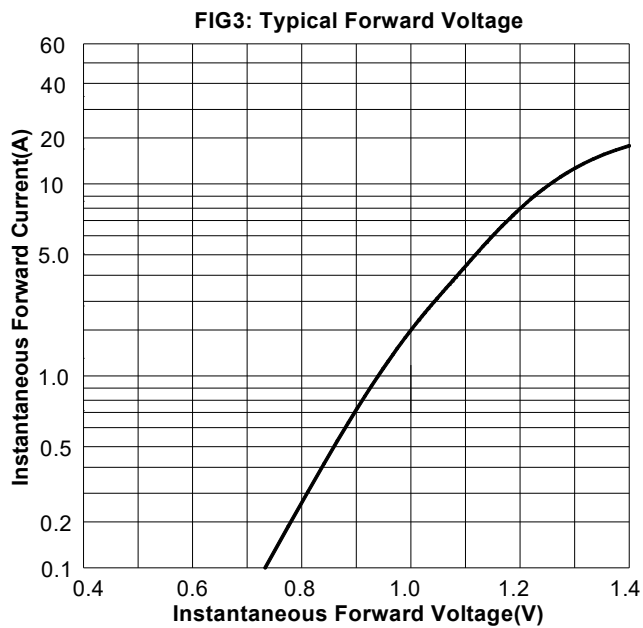
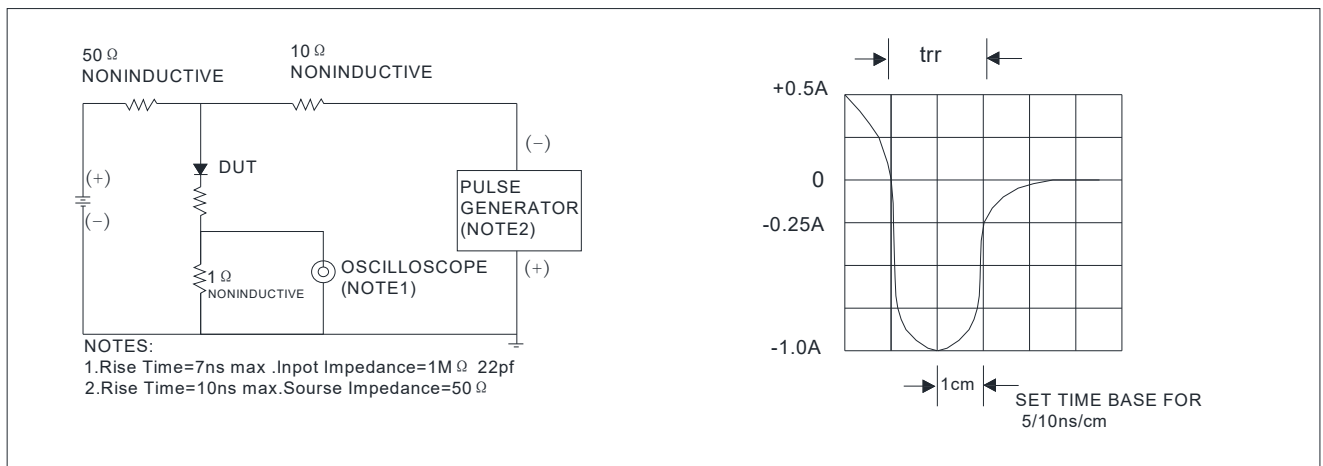


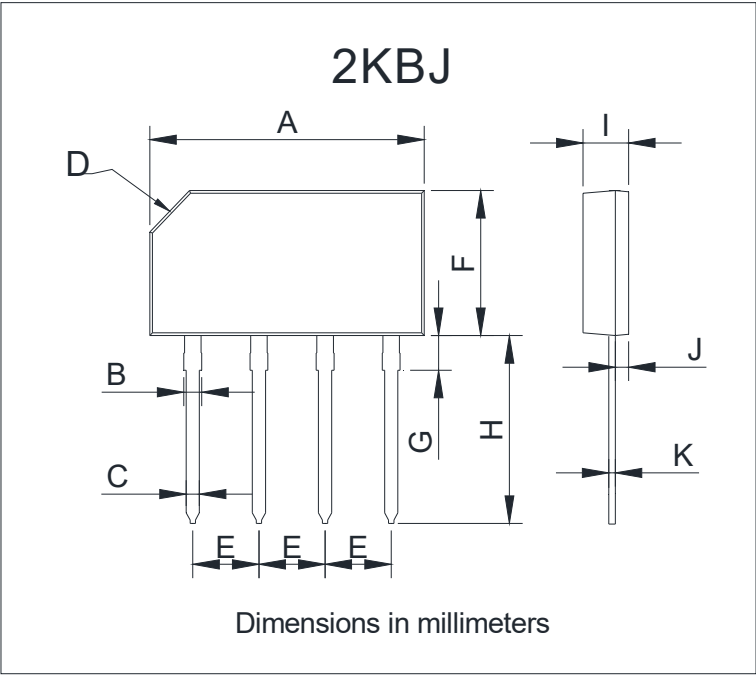
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





RGBL408 THRU RGBL410

■ 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



RGBL408 THRU RGBL410

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