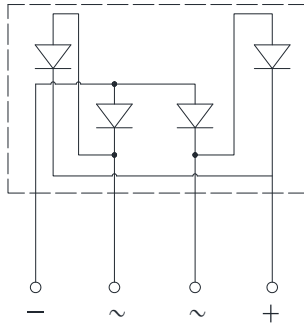
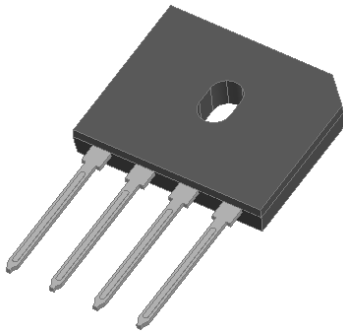


Fast Recovery Bridge Rectifier



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- 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 monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

- **Package:** GBU
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	RGBU1010	
Device marking code			RGBU1010	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	1000	
Maximum RMS Voltage	VRMS	V	700	
Maximum DC blocking Voltage	VDC	V	1000	
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =110°C	IO	A	10
	Without heatsink Ta =25°C			3.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	175	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			350	
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²S	127	
Storage temperature	Tstg	°C	-55 ~ +150	
Junction temperature	Tj	°C	-55 ~ +150	
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5	
Mounting torque @Recommend torque: 5kg·cm	Tor	kg·cm	8	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RGBU1010
Maximum reverse recovery time	tr	ns	If=0.5A, Ir=1.0A, Ir=0.25A	500
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=5.0A	1.3
Maximum DC reverse current at rated DC blocking voltage per diode	IR	µA	Tj =25°C	5
			Tj =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	48



RGBU1010

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

PARAMETER		SYMBOL	UNIT	RGBU1010
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	25.0
	Between junction and case, With heatsink	R _{θJ-C}		1.5

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RGBU1010	B1	Approximate 3.96	20	1000	2000	TUBE

■ Characteristics (Typical)

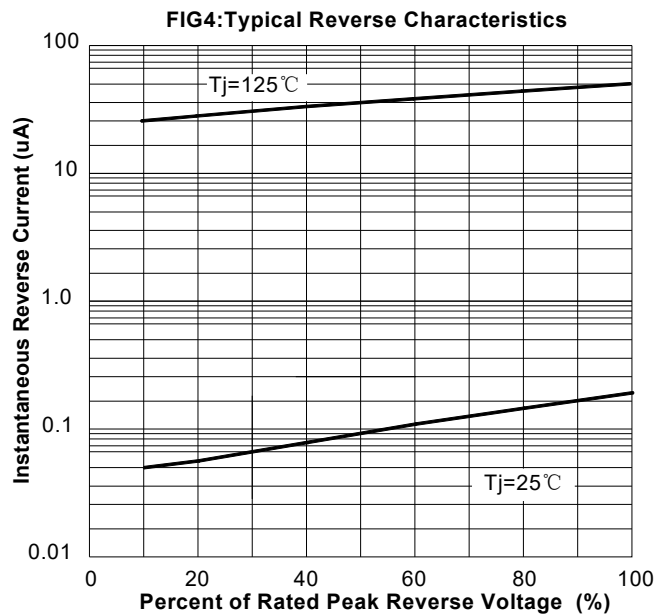
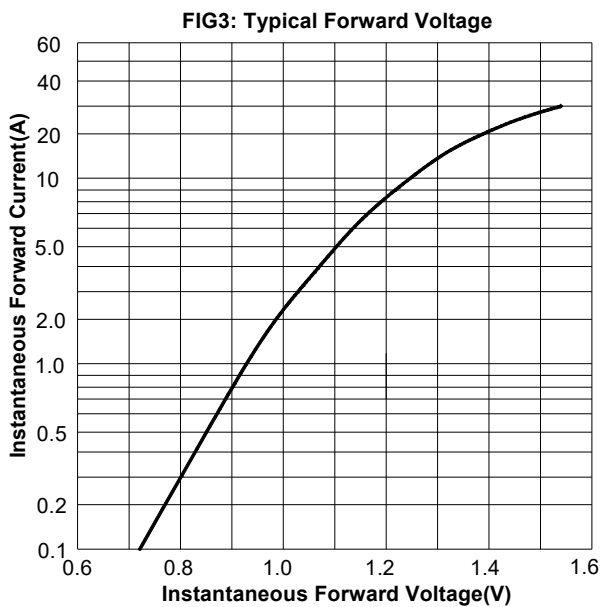
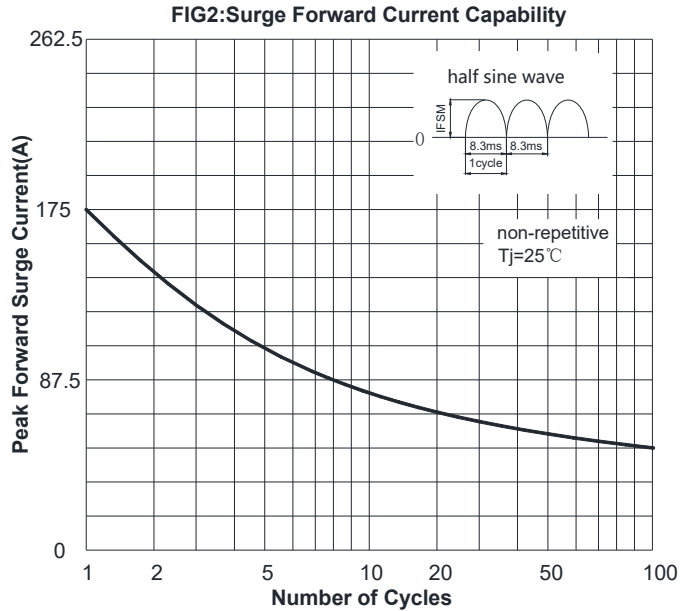
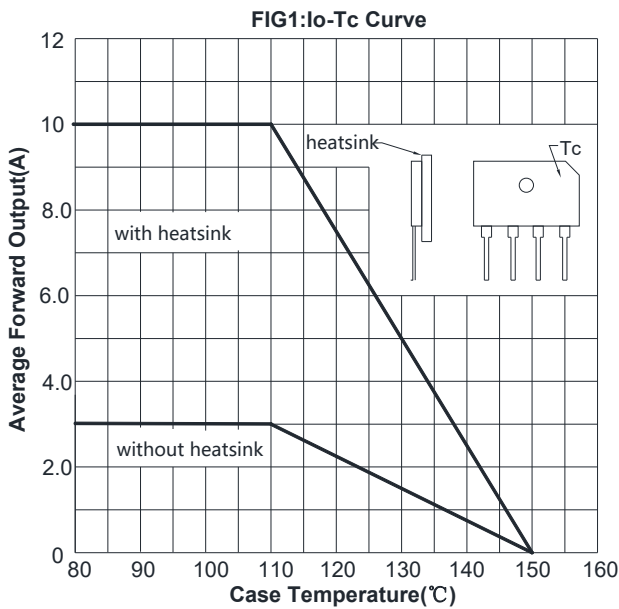
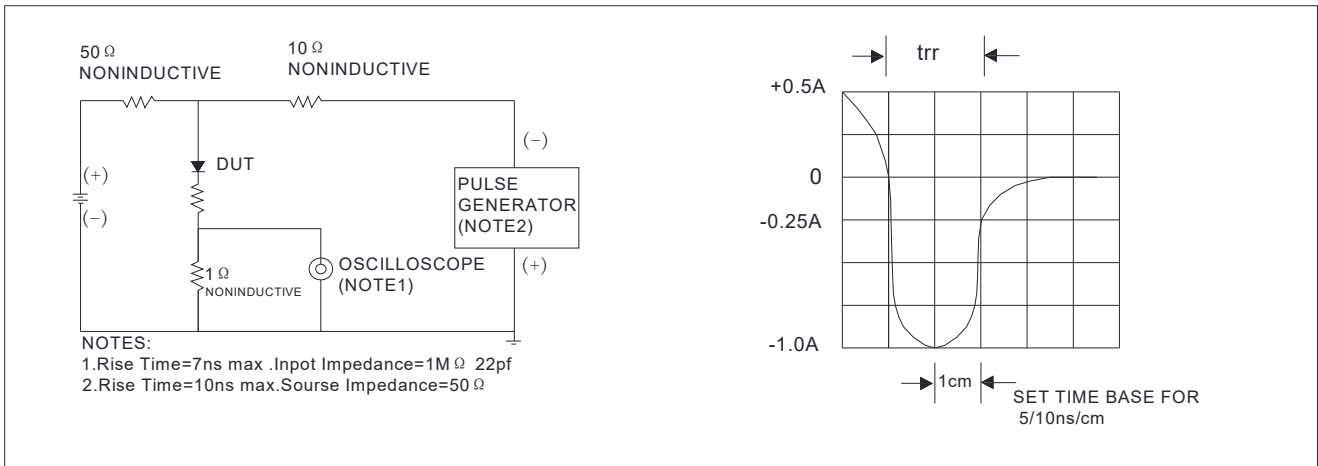
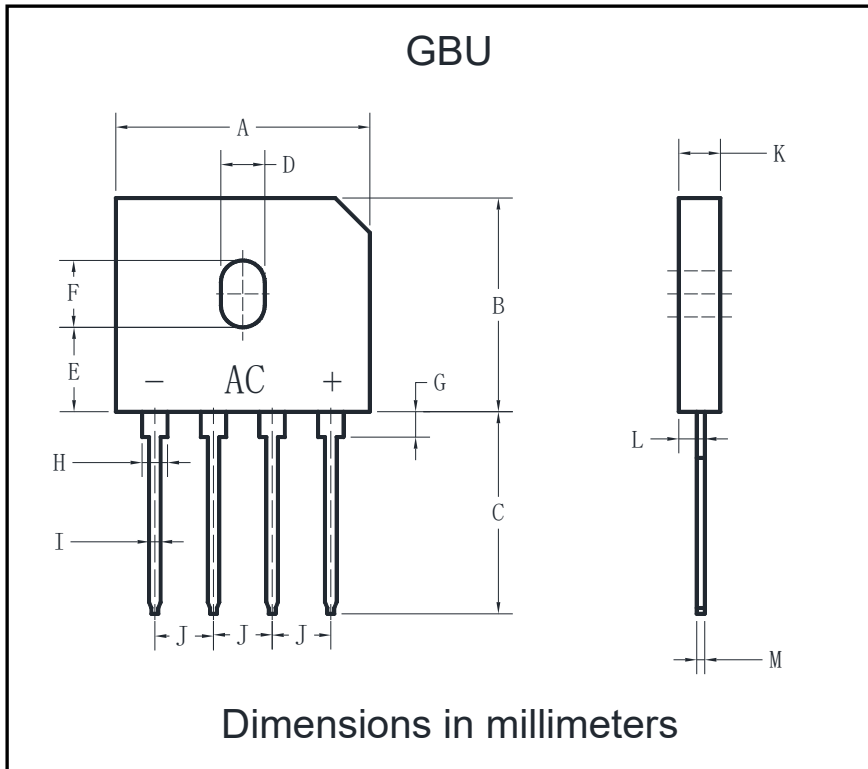


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.30	3.90
E	7.10	7.50
F	5.50	5.90
G	1.91	2.54
H	2.06	2.54
I	1.02	1.27
J	4.83	5.33
K	3.30	3.56
L	2.40	2.66
M	0.46	0.56



RGBU1010

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