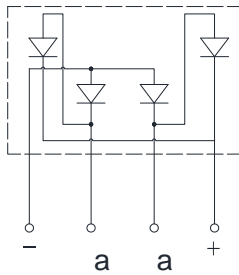
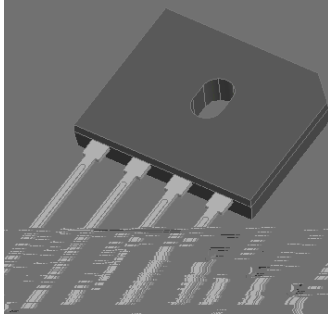


Super Fast Recovery Bridge Rectifiers



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 ($T_a=25$ Unless otherwise specified \AA $T_c=100-$

IO A

	Without heatsink $T_a=25-$			
				3.2
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25-$	IFSM	A		175
Current squared time @1ms $t \leq 8.3$ ms $T_j=25-$, Rating of per diode	I^2t	A ² S		127
Storage temperature	T_{stg}	-		-55 ~ +150
Junction temperature	T_j	-		-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV		2.5
Mounting torque @Recommend torque $\text{\AA}5$ kg cm	Tor	kg cm		8

Electrical Characteristics $\text{\AA}T_a=25$ Unless otherwise specified \AA

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EGBU1006
Maximum reverse recovery time	T_{RR}	ns	$I_F=0.5A, I_R=1.0A,$ $I_{RR}=0.25A$	35
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=5.0A$	1.7
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25-$	5
			$T_j=125-$	100
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	54



EGBU1006

Thermal Characteristics $\dot{A}T_a=25$ Unless otherwise specified \dot{A}

PARAMETER		SYMBOL	UNIT	EGBU1006
Thermal Resistance	Between junction and ambient, Without heatsink	R J-A	- /W	20
	Between junction and case, With heatsink	R J-C		2

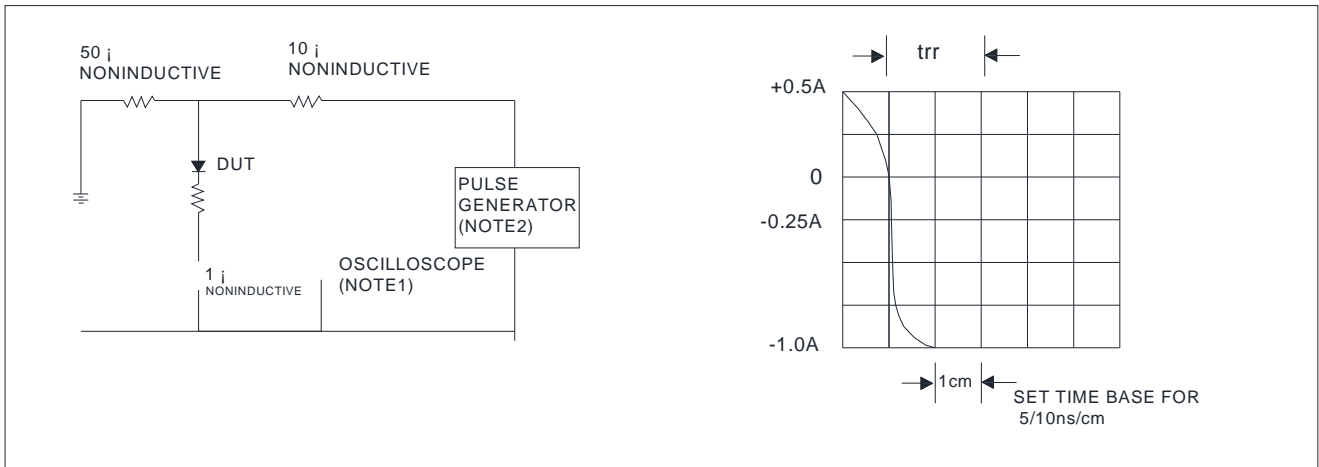
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
EGBU1006	B1	Approximate 3.96	20	1000	2000	TUBE

Characteristics

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



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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