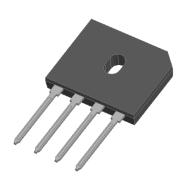
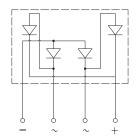






Super Fast Recovery Bridge Rectifiers





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 (Ta=25°C Unless otherwise specified)

.	■Maximum Ratings (Ta=25 € Unless otherwise specified)						
PARAMETER		SYMBOL	UNIT	EGBU3006			
Device marking code				EGBU3006			
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	V	600			
Maximum RMS Voltage		V _{RMS}	V	420			
Maximum DC blocking Voltage		V _{DC}	V	600			
Average rectified output current	With heatsink Tc =90°C	,	А	30			
@60Hz sine wave, R-load	Without heatsink Ta =25℃	lo		3.0			
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		I _{FSM}	А	320			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃				640			
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² S	425			
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				

EGBU3006

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EGBU3006
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} =15A	2.0
Maximum DC reverse current at rated DC blocking voltage per	I _R	μА	Tj =25℃	5
diode			Tj =125°C	100
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	

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

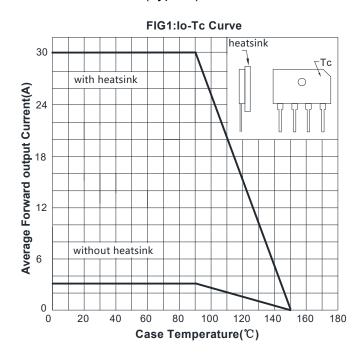
PARAMETER		SYMBOL	UNIT	EGBU3006
Thermal Resistance	Between junction and ambient, Without heatsink	R _{0J-A}	- °C/W	18.0
	Between junction and case, With heatsink	R _{eJ-C}		1.5

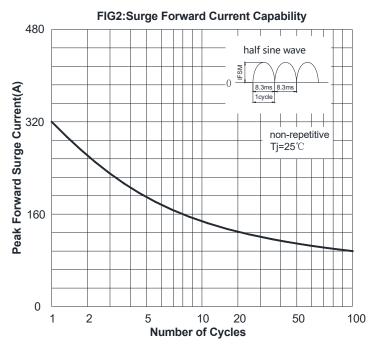
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
EGBU3006	B1	Approximate 3.97	20	1000	2000	TUBE

■ Characteristics (Typical)







EGBU3006

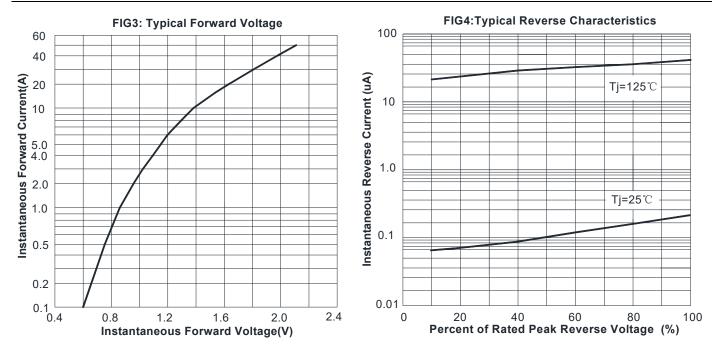
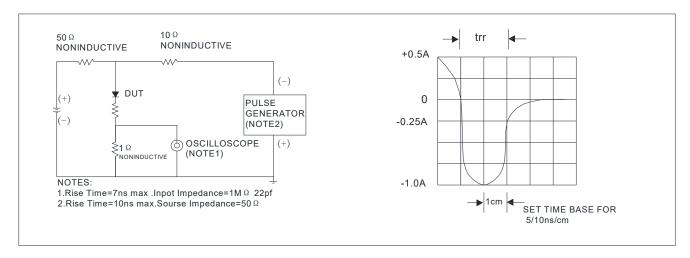


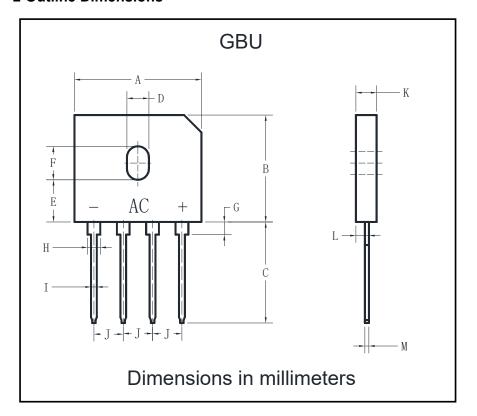
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time







■ Outline Dimensions



GBU					
Dim	Min	Max			
Α	21.80	22.30			
В	18.30	18.80			
С	17.50	18.00			
D	3.30	3.90			
Е	7.10	7.50			
F	5.50	5.90			
G	1.91	2.54			
Н	2.06	2.54			
I	1.02	1.27			
J	4.83	5.33			
K	3.30	3.56			
L	2.40	2.66			
М	0.46	0.56			



EGBU3006

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