



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 Å

PARAMETER		SYMBOL	UNIT	EGBU1506
Device marking code				EGBU1506
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 @60Hz sine wave, R-load	With heatsink Tc =100 -	I _O	A	15.0
	Without heatsink Ta =25 -			2.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25		I _{FSM}	A	180
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25				360



EGBU1506

■Electrical Characteristics $\dot{A}T_a=25$ - Unless otherwise specified $\dot{A}$

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EGBU1506
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	$I_{FM}=7.5A$	2.0
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	65

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

PARAMETER		SYMBOL	UNIT	EGBU1506
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	- /W	20
	Between junction and case, With heatsink	$R_{\theta J-C}$		2

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

Ordering Information (Example)

PREFERRED P/N

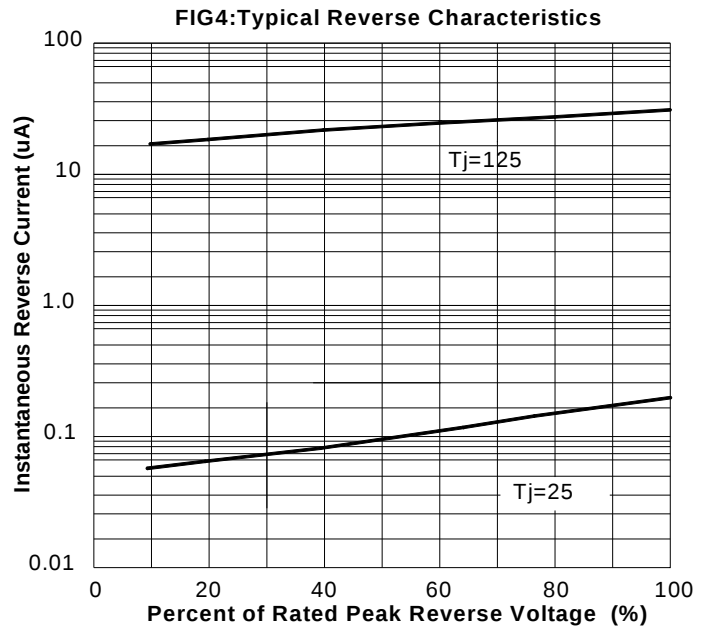
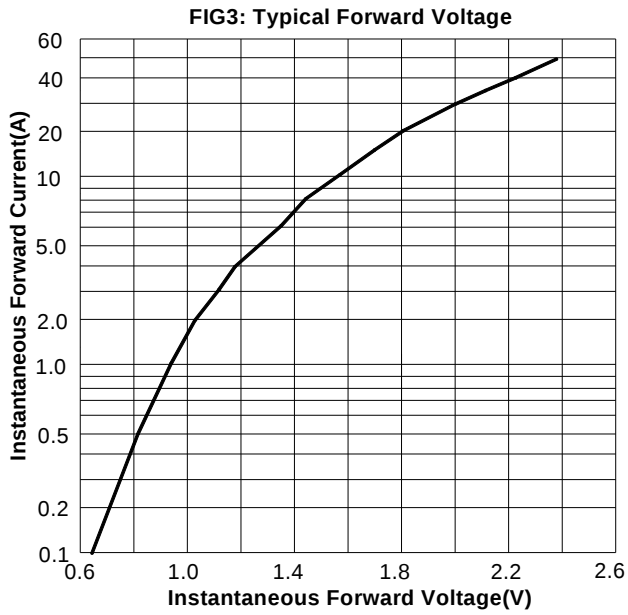
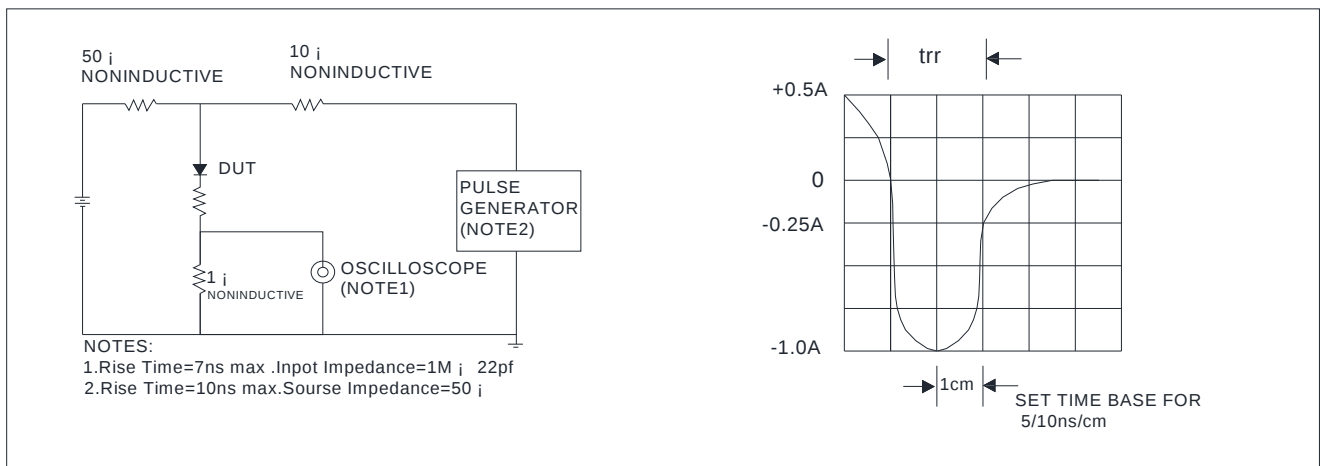


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





■ 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

