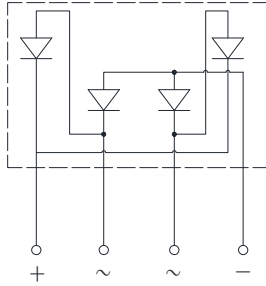
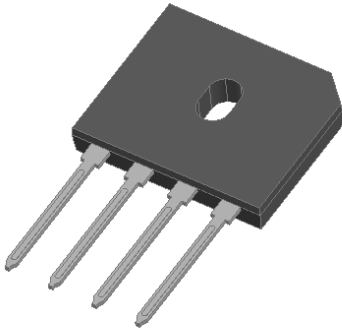


Low VF Bridge Rectifiers



Features

- UL recognition, file #E230084
- 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:** 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	GBUU2506
Device marking code			GBUU2506
Repetitive peak reverse voltage	VRRM	V	600
Average rectified output current @60Hz sine wave, R-load	IO	A	With heatsink Tc =120°C 25.0
			Without heatsink Ta =25°C 4.0
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C	IFSM	A	360
Surge(non-repetitive)forward current @1ms, square wave, 1 time, Tj=25°C			720
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I ² t	A ² S	538
Reverse Surge Current @20ms, Tj =25°C	SI	mA	6
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



GBUU2506

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V _F	V	I _{FM} =12.5A T _j =25°C	-	0.88	0.92
			I _{FM} =12.5A T _j =125°C	-	0.77	-
DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM} T _j =25°C	-	0.5	10
Reverse Recovery time	T _{RR}	ns	I _F =0.5A I _R =1A I _{RR} =0.25A	-	-	500

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

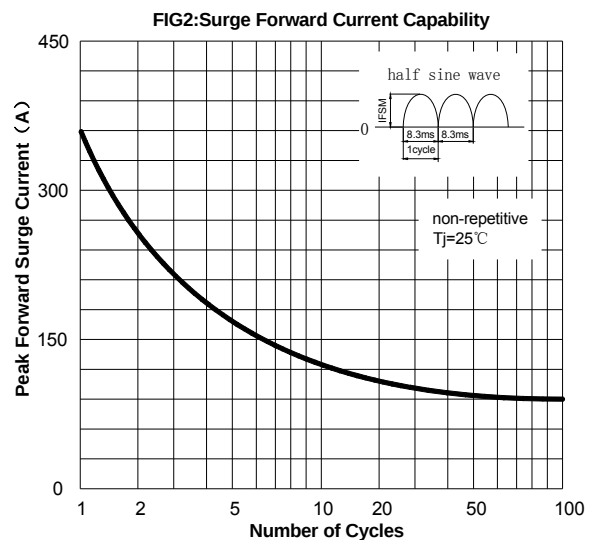
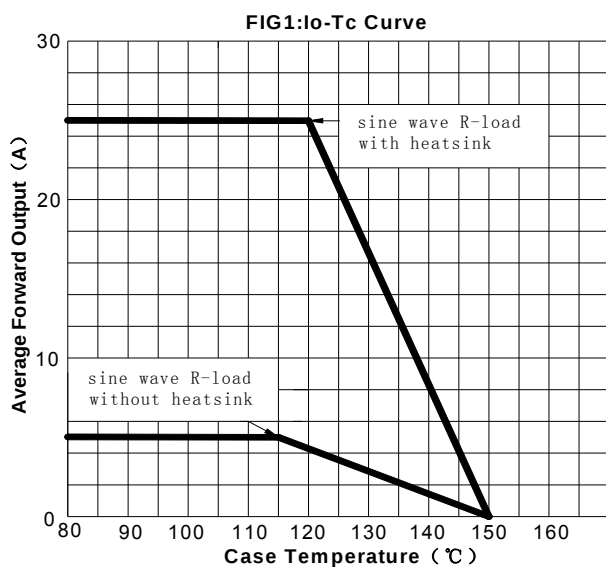
PARAMETER		SYMBOL	UNIT	GBUU2506
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	23.0
	Between junction and case, With heatsink	R _{θJ-C}		1.2
	Between junction and Lead With heatsink	R _{θJ-L}		4.0

Note: Unit Mounted on 175mm*100mm*5mm+8*100mm*18mm*1.67mm 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
GBUU2506	B1	Approximate 6.5	15	750	1500	TUBE

■ Characteristics(Typical)



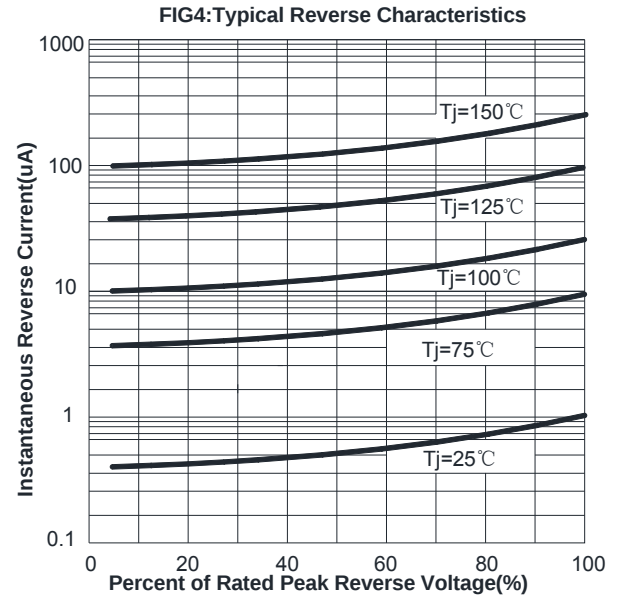
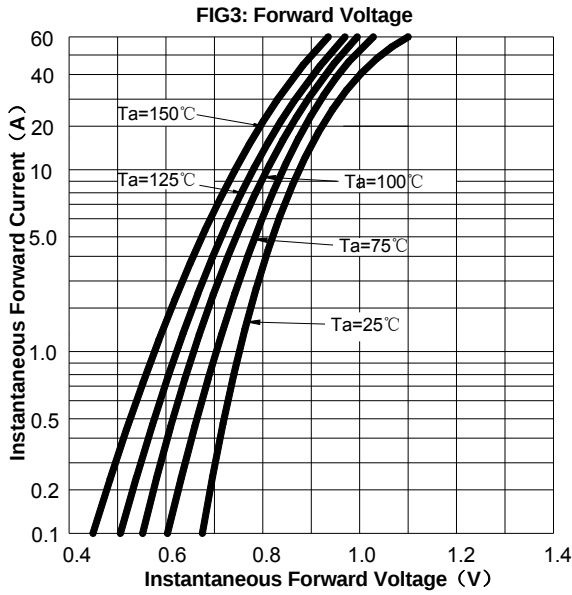
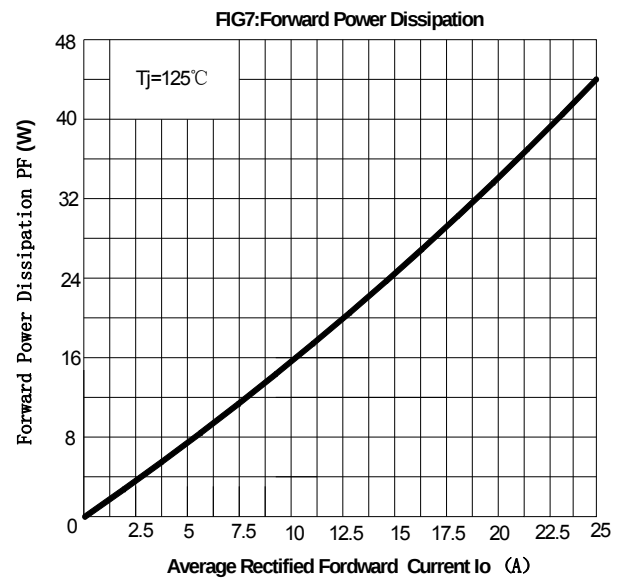
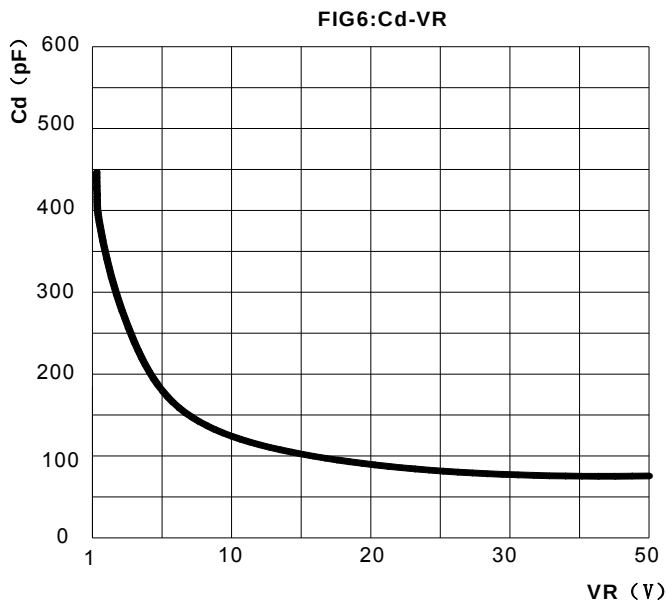
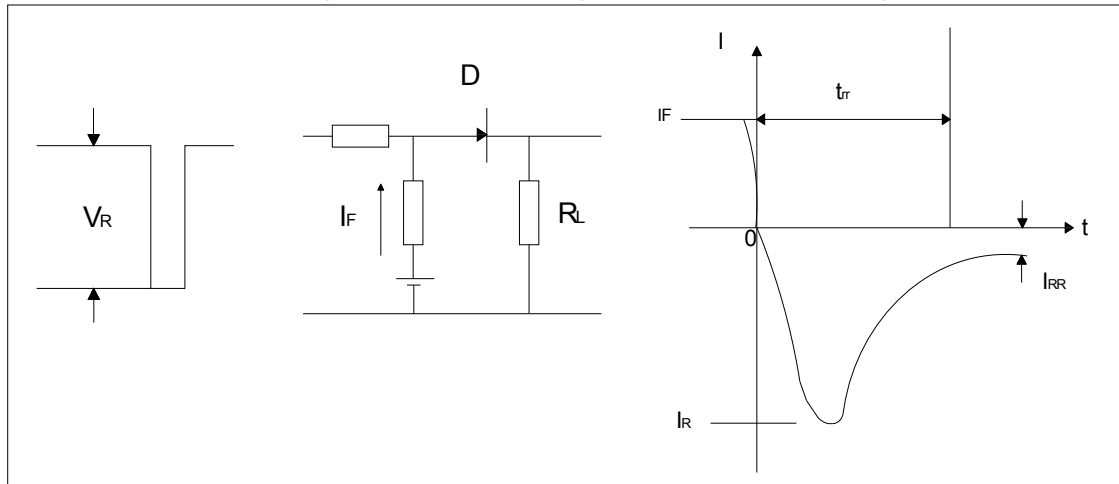
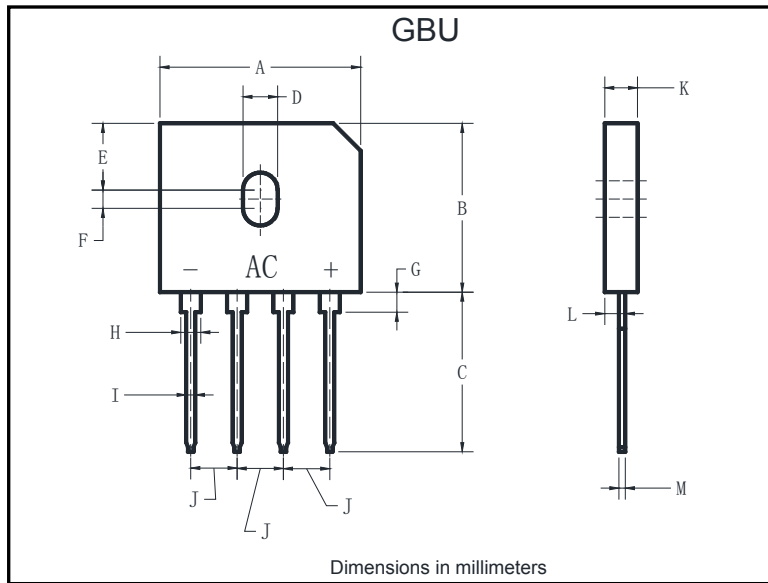


FIG5: Diagram of circuit and Testing wave form of reverse recovery time





■ Outline Dimensions



GBU		
Dim	Min	Max
A	21.80	22.30
B	18.30	18.80
C	17.50	18.00
D	3.50	4.10
E	7.40	7.90
F	1.65	2.16
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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