

GBU10A THRU GBU10M Bridge Rectifiers

Features

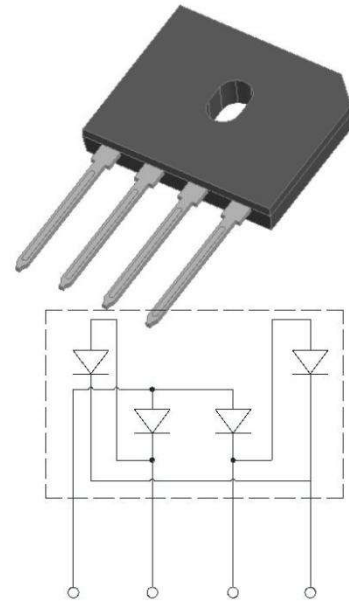
- High efficiency
- Ideal for automated placement
- High surge current capability

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication 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	GBU10						
			A	B	D	G	J	K	M
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Average Forward Current @Half-sine wave, Resistance load ,with heatsink Tc=108°C	I _o	A	10.0						
Average Forward Current @Half-sine wave, Resistance load ,without heatsink Tc=25°C			3.6						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	I _{FSM}	A	150						
Current squared time @1ms≤t≤8.3ms Ta=25°C, Rating of per diode	I ² t	A ² s	93.3						
Thermal Resistance(Typical) @Between junction and ambient,,without heatsink	R _{θJ-A}	°C/W	25						
Storage Temperature	T _{stg}	°C	-55 ~ +150						
Junction Temperature	T _j	°C	-55 ~ +150						

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

PARAMETER	Symbol	Unit	Conditions	GBU10					
				A	B	D	G	J	K
Peak Forward Voltage	V _{FM}	V	I _F = 5.0A	1.1					
Peak Reverse Current	I _{RRM}	μA	VR = V _{DC} @Ta=25°C	10					
			VR = V _{DC} @Ta=100°C	300					



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■ Characteristics (Typical)

FIG.1: I_o - T_c Curve

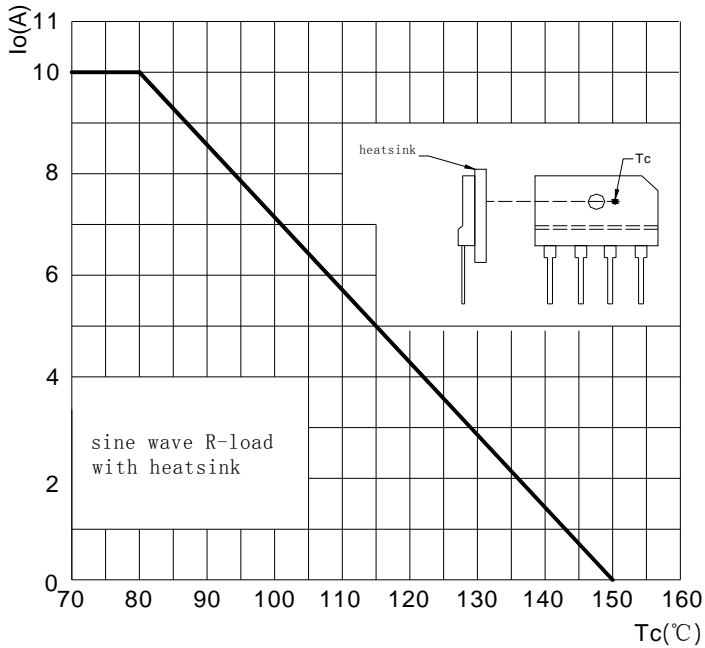


FIG.2: Forward Surge Current Capability

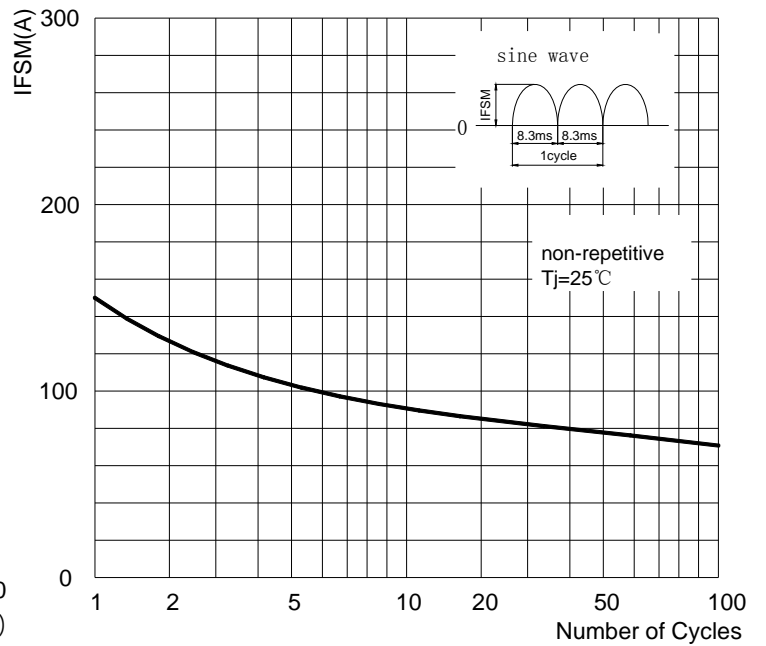


FIG.3: Forward Voltage

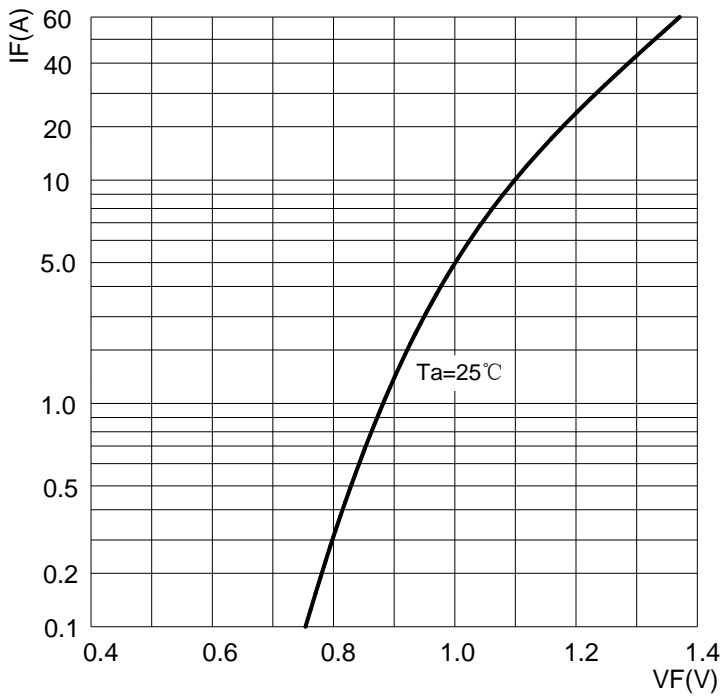
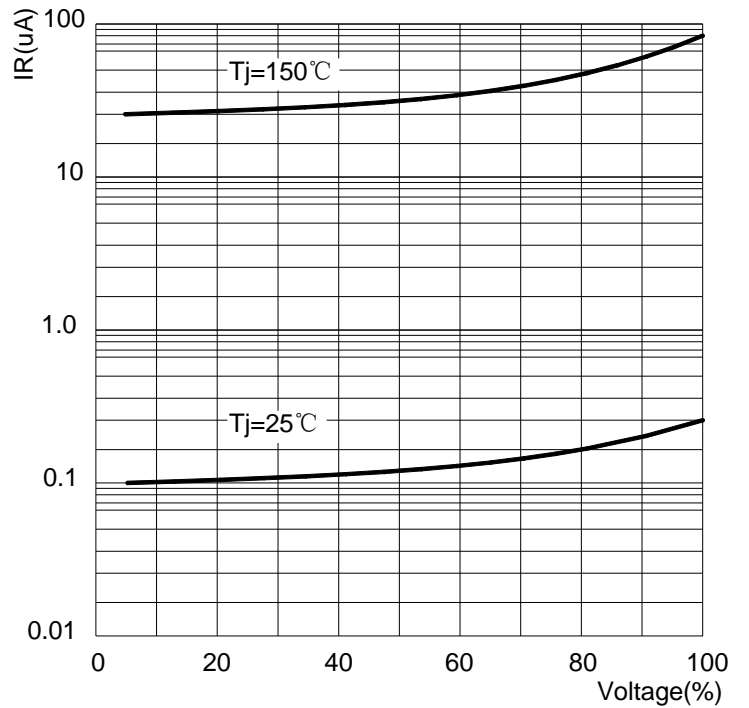


FIG.4: Typical Reverse Characteristics



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Ordering Information (Example)

PREFERRED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBU10A THRU GBU10M	GBU	20	400	2000	Tube

Outline Dimensions

