

GBJ8005 THRU GBJ810

Bridge Rectifiers

Features

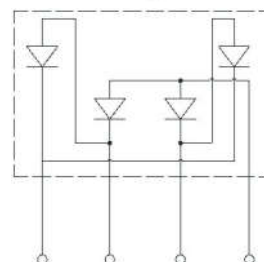
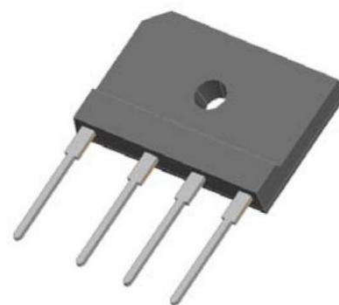
- High efficiency
- Ideal for automated placement
- High surge current capability

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: GBJ
- 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	GBJ8						
			005	01	02	04	06	08	10
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 T _c =82°C	I _o	A	8						
Average Forward Current @Half-sine wave, Resistance load Without heatsink T _a =25°C			3.2						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	170						
Current squared time @1ms≤t≤8.3ms T _a =25°C, Rating of per diode	I ² t	A ² s	120						
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	GBJ8						
				005	01	02	04	06	08	10
Peak Forward Voltage	V _{FM}	V	I _F =4.0A	1.1						
Peak Reverse Current	I _{RRM}	μA	VR =V _{DC} @Ta=25°C	10						
			VR =V _{DC} @Ta=100°C	300						



■ Characteristics (Typical)

FIG.1: I_o - T_c Curve

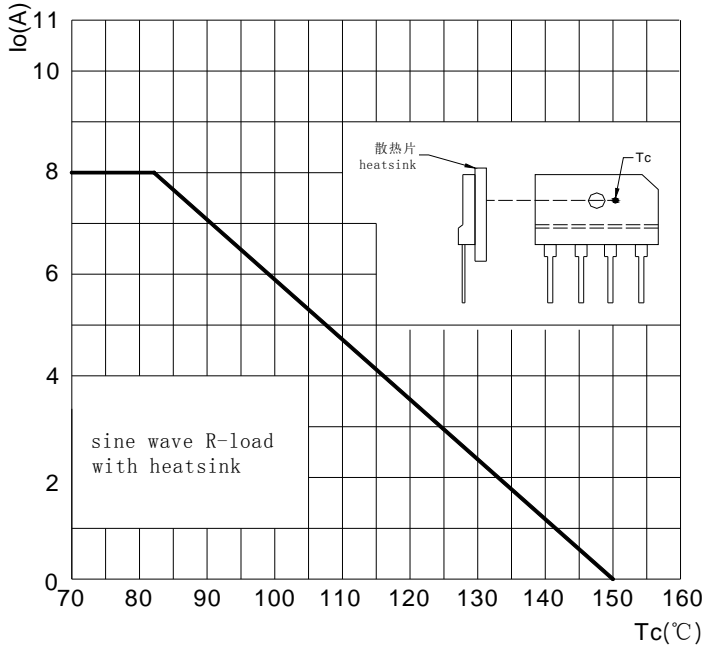


FIG.2: Forward Surge Current Capability

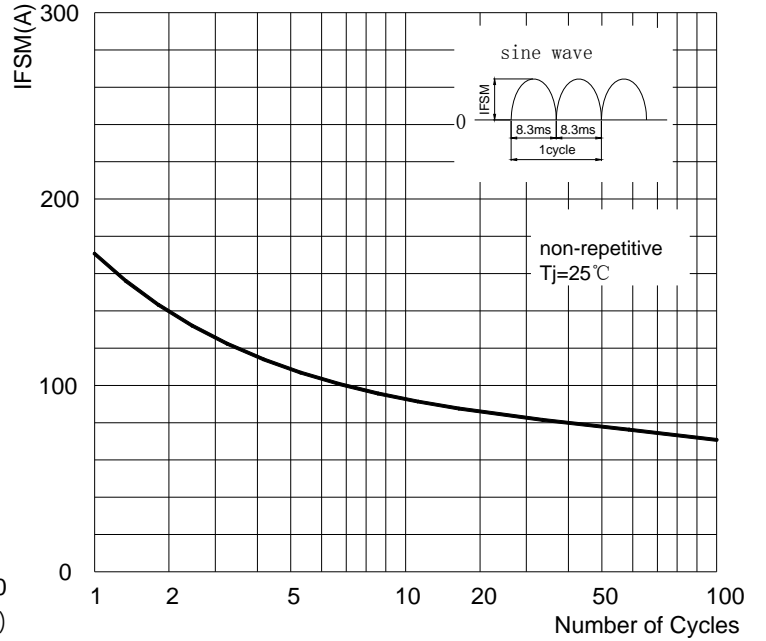


FIG.3: Forward Voltage

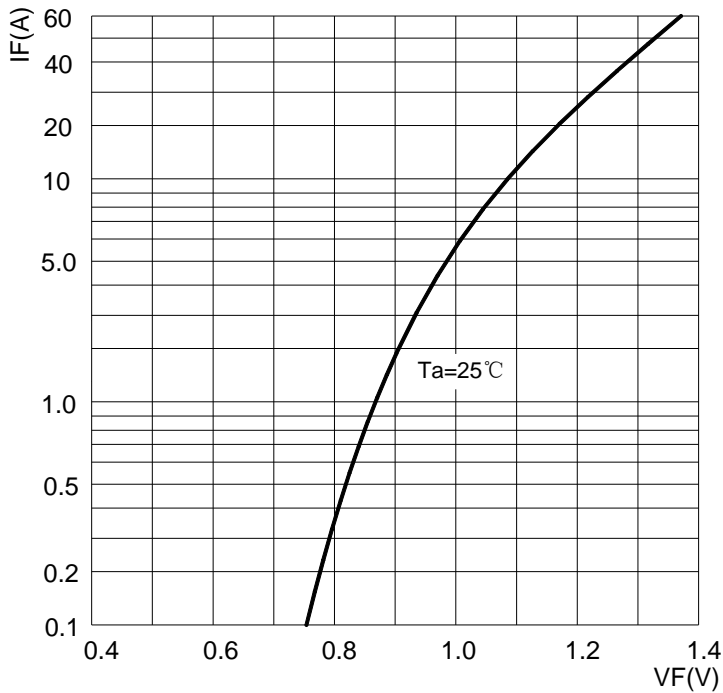
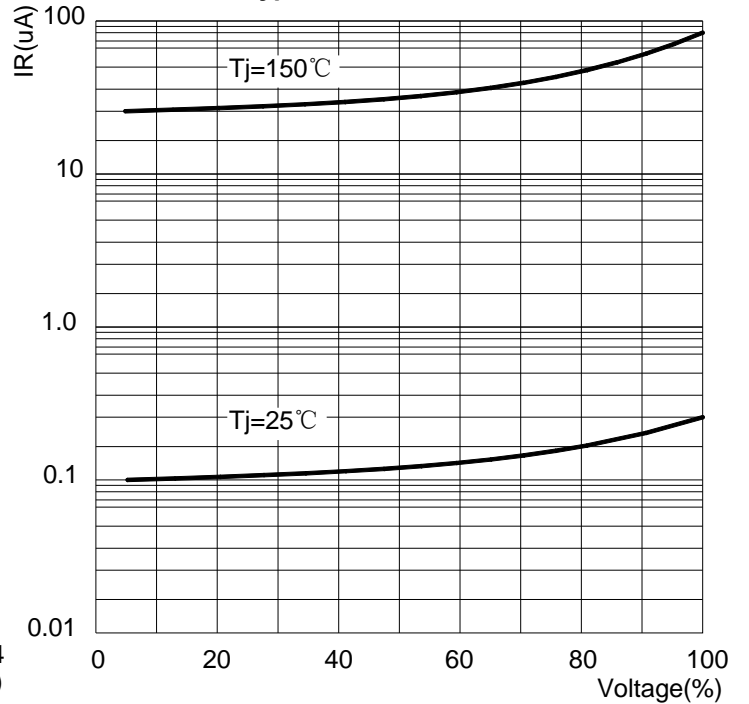


FIG.4: Typical Reverse Characteristics



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Ordering Information (Example)

PREFERRED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ8005 THRU GBJ810	GBJ	150	300	1500	Tube

Outline Dimensions

