

GBJ35005 THRU GBJ3510

Bridge Rectifiers

Features

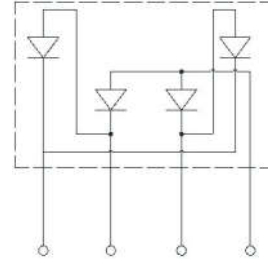
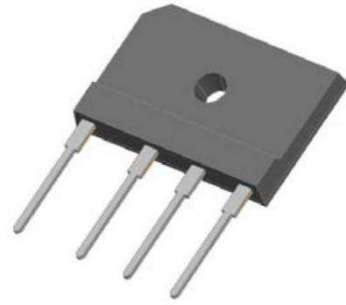
- High efficiency
- Ideal for automated placement
- High surge current capability

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	GBJ35						
			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 =100°C	I _o	A	35						
Average Forward Current @Half-sine wave, Resistance load Without heatsink T _a =25°C			3.5						
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	320						
Current squared time @1ms≤t≤8.3ms T _a =25°C, Rating of per diode	I ² t	A ² s	425						
Thermal Resistance(Typical) @Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	22						
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	GBJ35						
				005	01	02	04	06	08	10
Peak Forward Voltage	V _{FM}	V	I _F =17.5A	1.1						
Peak Reverse Current	I _{RRM}	μA	VR =V _{DC} @Ta=25°C	10						
			VR =V _{DC} @Ta=100°C	300						



GBJ35005 THRU GBJ3510

■ Characteristics (Typical)

FIG.1: I_o - T_c Curve

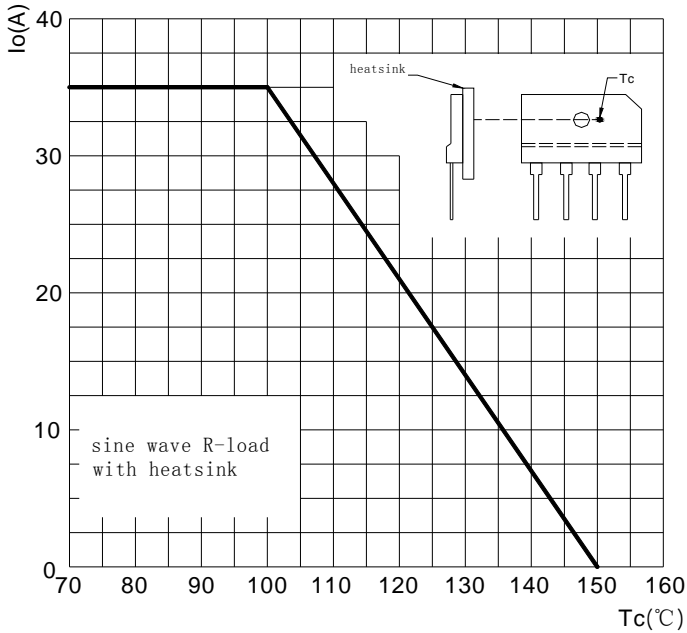


FIG.2: Forward Surge Current Capability

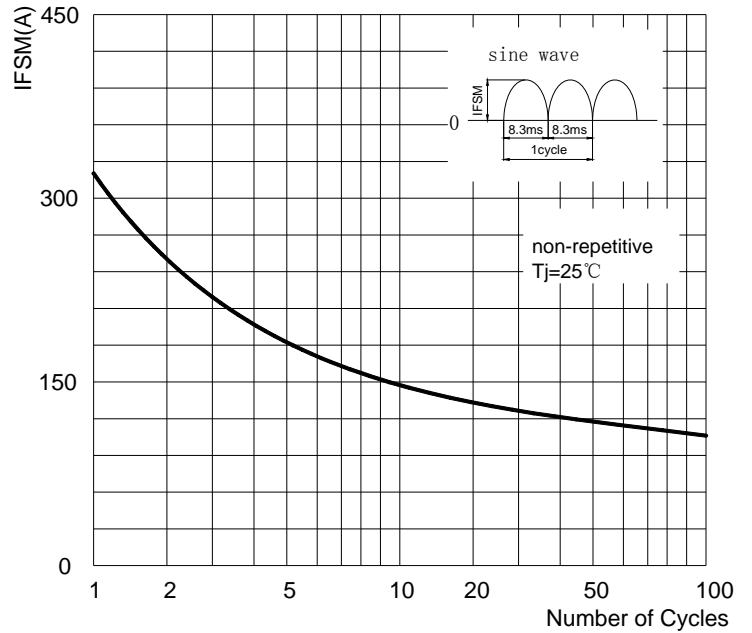


FIG.3: Forward Voltage

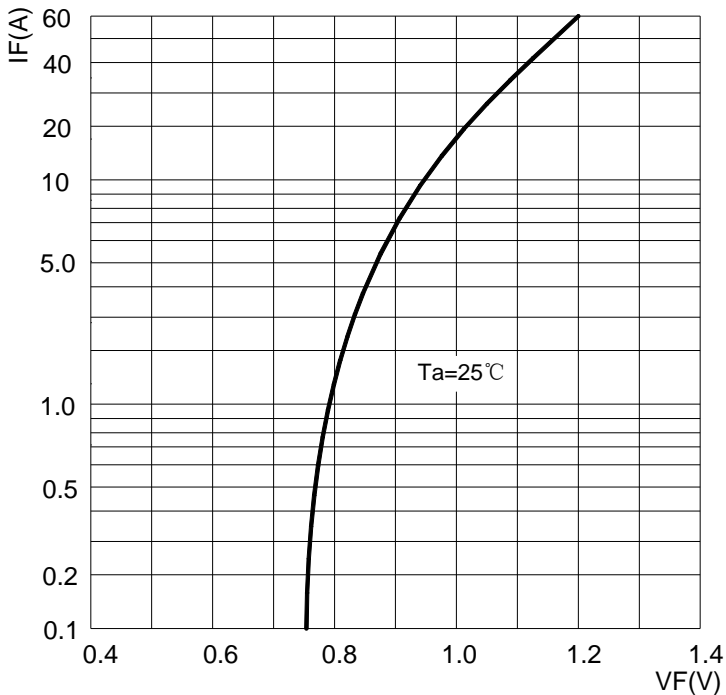
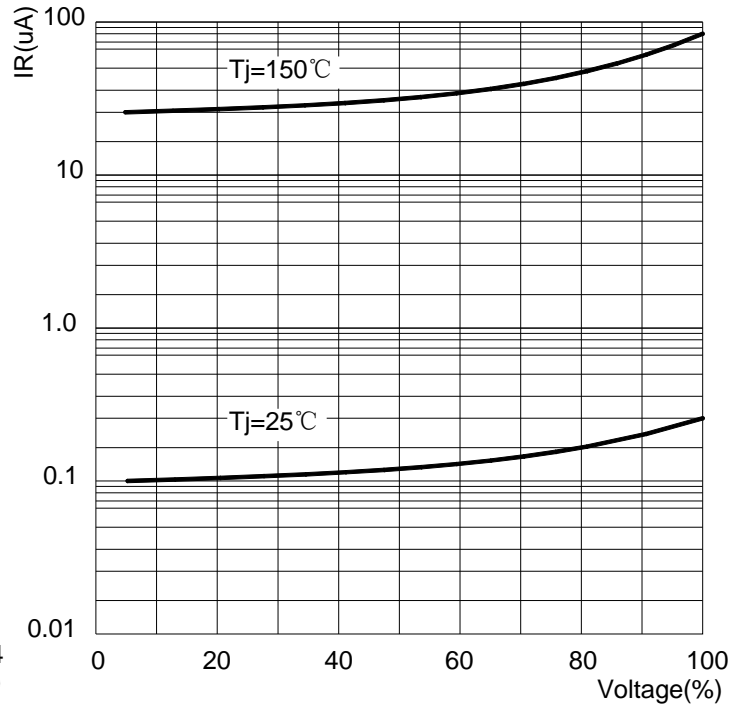


FIG.4: Typical Reverse Characteristics



GBJ35005 THRU GBJ3510

Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ35005 THRU GBJ3510	GBJ	150	300	1500	Tube

Outline Dimensions

