

Technical Data Data Sheet N1805, Rev. - **Green Products**

GBJ35005-GBJ3510

Single-Phase 35.0A Glass Passivated Bridge Rectifier

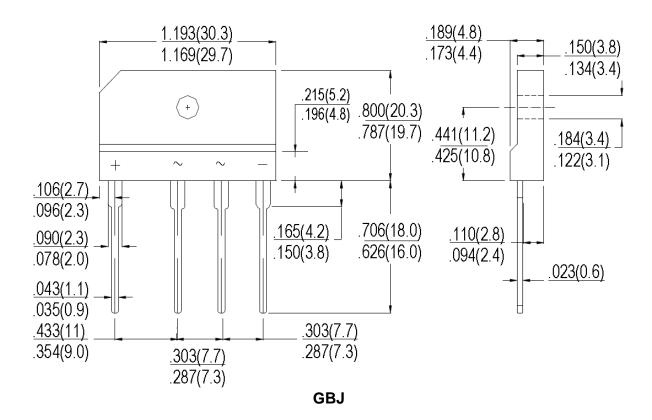
Features:

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Plastic material-UL flammability 94V-0

Mechanical Data:

- Case: GBJ, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version

Mechanical Dimensions: In Inches/mm



MARKING, MOLDING RESIN

Marking for Type Number, 1st row SSG YYWWL, 2nd row Type Number Where YY is the manufacture year WW is the manufacture week code L is the wafer's Lot Number

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Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Maximum Ratings:

Type Number	Symbol	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{DC} \end{array}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average forward rectified output current (Note 1) @T _A = 90°C	Io	35.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	320							Α

Electrical Characteristics:

Type Number	Symbol	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit
Forward Voltage (per element)	V_{FM}	1.0 1.1							٧
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 125°C	I _R	5.0 500						μA	
Typical Junction Capacitance(per leg) (Note 2)	CJ	75					pF		

Thermal-Mechanical Specifications:

Type Number	Symbol	GBJ 35005	GBJ 3501	GBJ 3502	GBJ 3504	GBJ 3506	GBJ 3508	GBJ 3510	Unit
Between Junction and Ambient, Without heatsink	$R_{\theta JA}$	22							°C/ W
Between Junction and Case, Without heatsink	$R_{ heta JC}$	0.8							
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C
Case Style	GBJ								

Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

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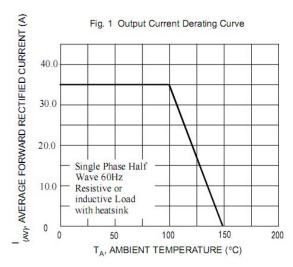
^{2.} Measured at 1.0 MHz and applied reverse voltage of 5.0V D.C.

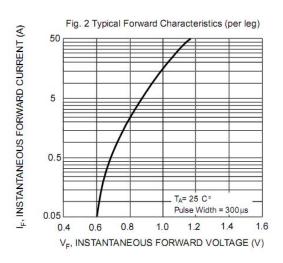


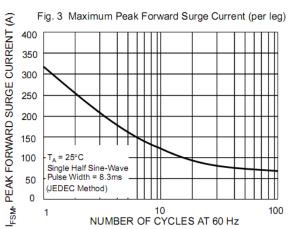
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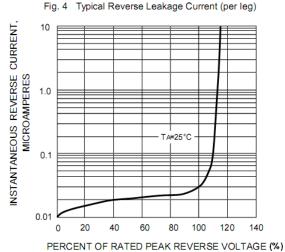
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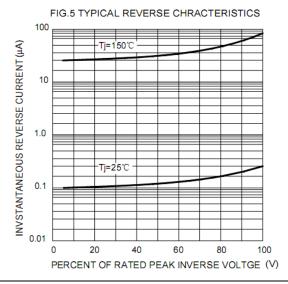
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