

GBJ3506 thru GBJ3510

REVERSE VOLTAGE – 600 to 1000 Volts

FORWARD CURRENT – 35 Amperes

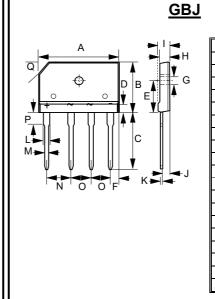
GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- · Ideal for printed circuit board
- High surge current capability.
- ESD capability: Machine mode, C (> 400 V) Human body model, 3B (> 8 kV)
- UL recognized file # E95060

MECHANICAL DATA

- · Case: GBJ
- Case Material: Plastic material, UL flammability classification 94V-0
- Component in accordance to RoHs 2002/95/EC
- Polarity indicator: Symbol molded on body
- Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any



	GBJ		
DIM.	MIN. MAX.		
Α	29.70	30.30	
В	19.70	20.30	
С	17.0	18.0	
D	4.70	4.90	
Е	10.80	11.20	
F	2.30	2.70	
G	3.10Ø	3.40Ø	
Н	3.40	3.80	
	4.40	4.80	
J	2.50	2.90	
κ	0.60	0.80	
L	2.00	2.40	
М	0.90	1.10	
Ν	9.80	10.20	
0	7.30	7.70	
Р	3.80	4.20	
Q	(3.0) x 45°		
All dimension in millimeter			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	GBJ3506	GBJ3508	GBJ3510	UNIT
Device marking code		Note	GBJ3506	GBJ3508	GBJ3510	
Maximum repetitive peak reverse voltage		VRRM	600	800	1000	V
Average rectified output current with heatsink T_c = 80°C without heatsink T_a = 25°C		IF (AV)	35 3.6		А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	TJ=25°C	IFSM	400			А
I ² t rating for fusing (t = 8.3ms)		l²t	664		A ² S	
Mounting torque (recommended torque: 0.5 N.m)		TOR	0.8		N.m	
Operating junction temperature range		TJ	-40 to +150		°C	
Storage temperature range		T _{STG}	-55 to +150			°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		PARAMETER TEST CONDITIONS SYMI		SYMBOL	МАХ	UNIT
Forward voltage	IF=17.5A	TJ=25°C	VF	1.1	V		
Leakage current	VR rated	TJ =25°C TJ =125°C	IR	10 500	uA		
Typical junction capacitance (Note1)			CJ	150	pF		

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYF	P.	UNIT
Typical thermal resistance (Note2)	RthJ _C RthJ∟	1.0 1.5		°C/W
Note ·			REV. 4, Apr2019, KB	DG14

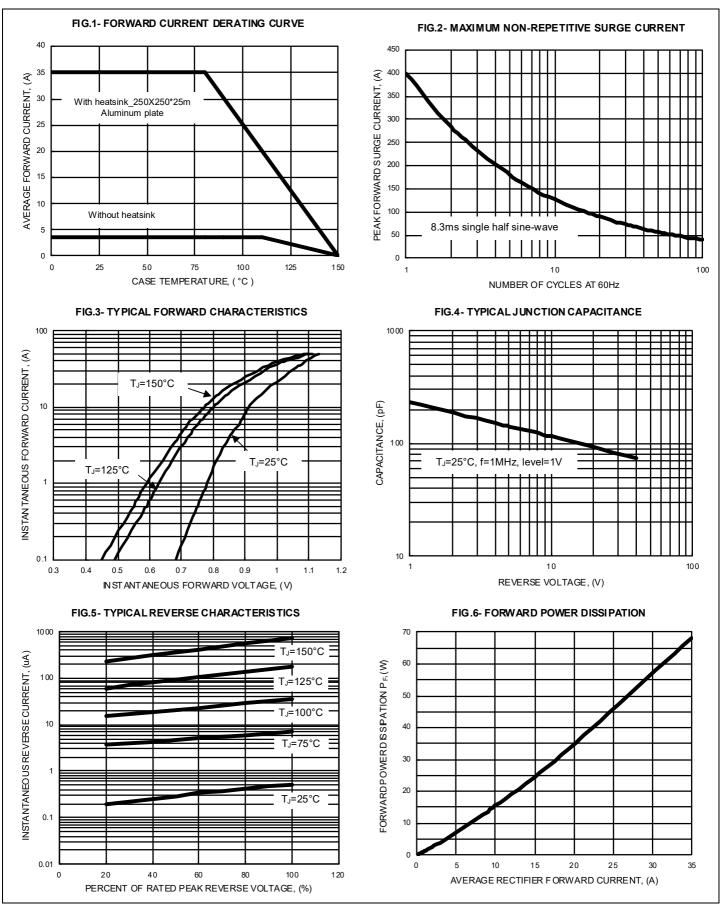
Note :

(1) Measured at 1.0MHz and applied voltage of 4.0VDC.

(2) Thermal resistance test performed in accordance with JESD-51. Device mounted on 250mm x 250mm x 25mm Al plate heatsink.

RATING AND CHARACTERISTIC CURVES GBJ3506 thru GBJ3510

LITEON



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