

GBJ3506 thru GBJ3510

REVERSE VOLTAGE – 600 to 1000 Volts

FORWARD CURRENT – 35 Amperes

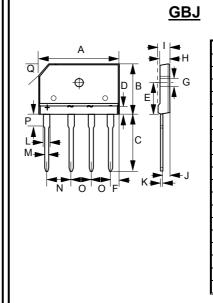
GLASS PASSIVATED BRIDGE RECTIFIERS

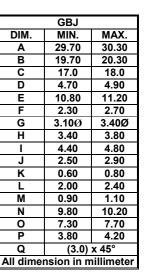
FEATURES

- · 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





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		V _{RRM}	600	800	1000	V
Average rectified output current with heatsink T_{C} = 80°C without heatsink T_{a} = 25°C		I _{F (AV)}	35 3.6		А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	T _J =25°C	I _{FSM}	400		А	
l ² t rating for fusing (3ms≦ t ≦ 8.3ms)		l ² t	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		SYMBOL	МАХ	UNIT
Forward voltage	IF=17.5A	TJ=25°C	V _F	1.1	V
Leakage current	VR rated	T _J =25°C T _J =125°C	I _R	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 :

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

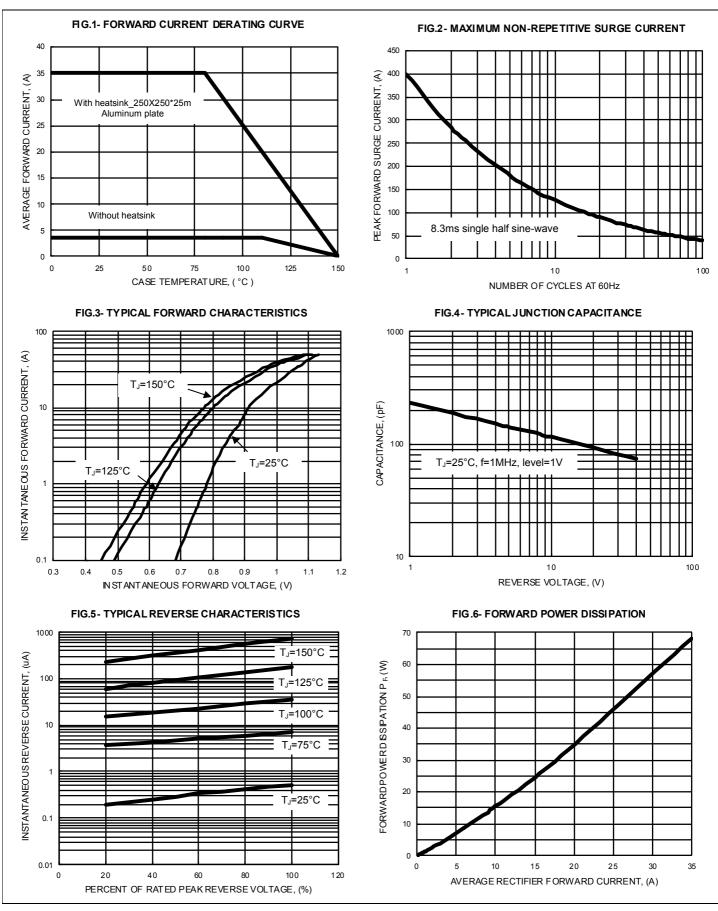
(2) Thermal resistance test performed in accordance with JESD-51.

Device mounted on 250mm x 250mm x 25mm Al plate heatsink.

REV. 3, DEC.-2014, KBDG14

RATING AND CHARACTERISTIC CURVES GBJ3506 thru GBJ3510

LITEON



LEGAL DISCLAIMER NOTICE



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.

