

GBJ5010

MAX

30.30

20.30

18.00

4.90

11.20

2.70

3.40Ø

3.80

4.80

2.90

0.80

2.40

1.10

10.20

7.70

4.20

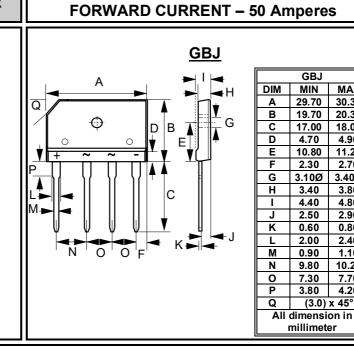
GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- UL recognition file # E95060

MECHANICAL DATA

- · Case Material: Green molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.)
- Polarity indicator: Symbol molded on body
- Weight: 7.2 grams (Approximate)
- Marking code : GBJ5010



REVERSE VOLTAGE –1000 Volts

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE 1000	UNIT V
Maximum repetitive peak reverse voltage	V _{RRM}		
Maximum DC blocking voltage	V _{DC}	1000	V
Average rectified output current per device with heatsink (Note 2) without heatsink @ T_c = 85°C	I _(AV)	50 4.9	А
Peak forward surge current 8.3ms single half sine-wave @ T_=25°C superimposed on rated load @ T_=125°C	I _{FSM}	500 400	А
Peak forward surge current 1ms single half sine-wave @ T_j=25°C superimposed on rated load @ T_j=125°C	IFSM	1000 800	А
I^2 t rating for fusing (t = 8.3ms)	I²t	1037	A ² S
Mounting Torque (recommended torque: 0.5 N.m)	TOR	0.8	N.m
Operating and storage temperature range	TJ	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	МАХ	UNIT
Forward voltage (Note 1)	I _F = 25A	T _J = 25°C	VF	1.1	V
Leakage current	V _R = 1000V	T」= 25°C T」= 125°C	IR	10 500	uA
Typical junction capacitance (Note 1)			CJ	205	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	Typical	UNIT
Typical thermal resistance (Note 2)	RthJ _A RthJc RthJ∟	1.6 0.4 1.2	°C/W
			REV.3, Apr2019, KBDG51

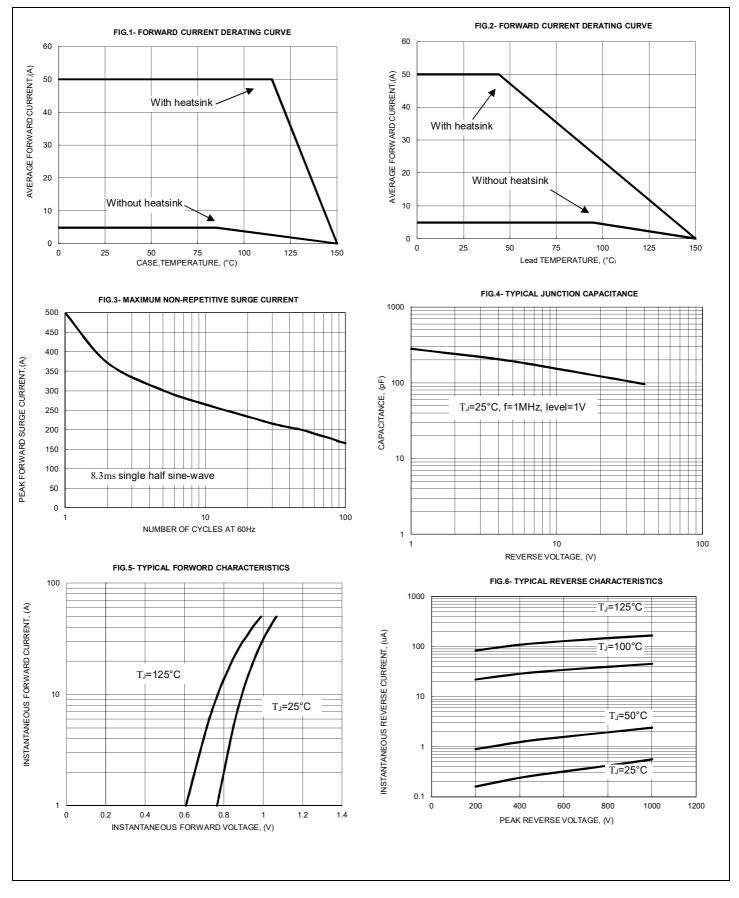
Note :

(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC

(2) Thermal Resistance Junction to Lead, device mounted on heatsink.

RATING AND CHARACTERISTIC CURVES GBJ5010

LITEON



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