

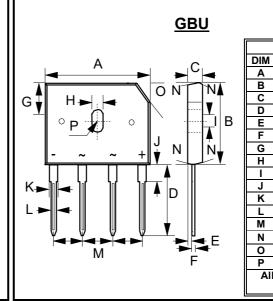
GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- Rating to 1000V PRV.
- · Ideal for printed circuit board
- · Reliable low cost construction utilizing molded plastic technique.
- UL recognition file # E95060

MECHANICAL DATA

- · Case: GBU
- Case Material: Plastic material, UL flammability classification 94V-0
- · Polarity Indicator: Symbol molded on body
- Weight: 3.72 grams (Approximate)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	GBU1004	GBU1006	GBU1008	GBU1010	UNIT
Maximum repetitive peak reverse voltage		VRRM	400	600	800	1000	V
Maximum DC blocking voltage		V _{DC}	400	600	800	1000	V
Average rectified output current per device with heatsink (Note 2) without heatsink @ Tc=100°C		I _(AV)	10 3.2			А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}		24 22	40 20		А
Peak forward surge current 1ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	IFSM		48 44			А
I^2 t rating for fusing (t = 8.3 ms)	@ T _A =25°C	I²t		23	39		A ² S
Mounting Torque (recommended torque: 0.5 N.m)		TOR	0.8		N.m		
Operating and storage temperature range		TJ ,TSTG	-55 to +150			°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	МАХ	UNIT
Ferward valtage	I _F = 5.0A	T _J = 25°C	N	1.0	V
Forward voltage	I _F = 10A	$T_J = 25^{\circ}C$	VF	1.2	V
Leakage current	V_{R} at rated	T _J = 25°C T _J = 125°C	I _R	5 500	uA
Typical junction capacitance (Note 1)		CJ	60	pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance	$\begin{array}{l} Rth J_{C} (Note 2) \\ Rth J_{C} (without heatsink) \\ Rth J_{A} (without heatsink) \end{array}$	2.0 5.6 22	°C/W
Note :	REV.10, Mar-2	REV.10, Mar-2019, KBDJ04	

Note :

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

(2) Thermal resistance junction to case and ambient in accordance with JESD-51.

Device mounted on 150mm * 150mm * 1.6mm Cu plate heatsink.

GBU1004 thru GBU1010

REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT – 10 Amperes

GBU

MAX

22.30

18.80

3.56

18.00

1.00

0.56

7.90

4.10

2.16

2.75

2.35

1.27

MIN

21.80

18.30

3.30

17.50

0.76

0.46

7.40

3.50

1.65

2.25

1.95

1.02

4.83 5.33

7.0° TYPICAL

(3.2) x 45°

1.90 PADIUS All dimension in millimeter

Α

В

С

D

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RATING AND CHARACTERISTIC CURVES GBU1004 thru GBU1010

LITEON

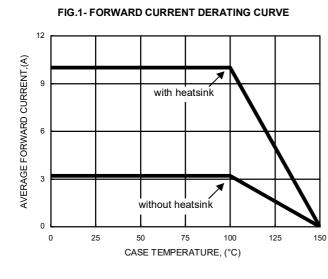


FIG.3- TYPICAL FORWORD CHARACTERISTICS

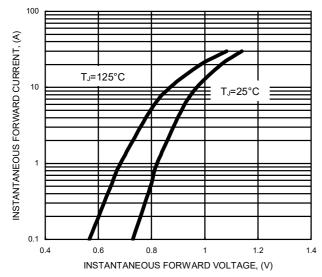
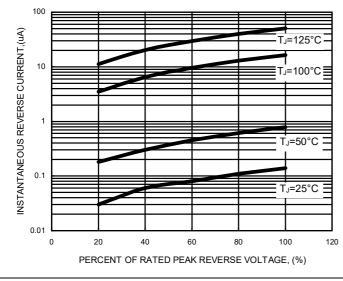


FIG.5- TYPICAL REVERSE CHARACTERISTICS



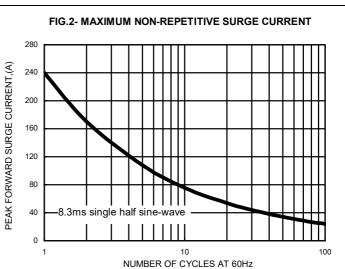
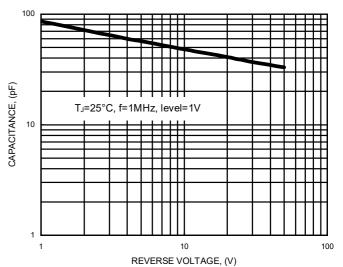
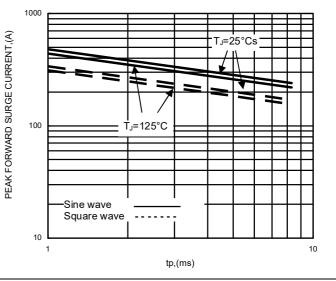


FIG.4- TYPICAL JUNCTION CAPACITANCE







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