LITEON SEMICONDUCTORS

GBL610

GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE – 1000Volts FORWARD CURRENT – 6 Amperes		
 FEATURES Rating to 1000V PRV Ideal for printed circuit board UL recognition file # E95060 Reliable low cost construction utilizing molded plastic technique MECHANICAL DATA Case: GBL Polarity indicator: As marked on the body Weight: 0.09 ounces, 2.52 grams Component in accordance to RoHs 2002/95/EC 	GBL A F F B B 3.30 C 10.70 D 17.50 B 1.20 C 10.70 B 2.30 C 10.70 B 1.20 C 1.20 F 0.80 I 1.95 J 1.02 J 1.02 J 1.02 I 1.95 J 1.02 K 3.2×45° L -		
 Mounting position: Any 	M - 5° All Dimensions in millimeter		

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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	GBL610 GBL610	UNIT
Device marking code	Note		
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Average Rectified Output Current	I _{F(AV)}	6	А
Peak Forward Surge Current@ Tj = 25 °C8.3ms single half sine-wave@ Tj = 125°C	IFSM	160 128	А
Peak Forward Surge Current@ Tj =25 $^{\circ}$ C1.0ms single half sine-wave@ T_j=125 $^{\circ}$ C	I _{FSM}	320 256	А
I^{2} t Rating for fusing (t = 8.3ms)	l ² t	68	A ² S
Operating junction temperature range	T _J ,T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	Max.	UNIT
Forward Voltage (1)	IF=3A	Tj=25°C Tj=125°C	V _F	0.95 0.80	V
Leakage Current	V_{R} at rated	Tj=25°C Tj=125°C	I _R	5 100	uA
Typical Junction Capacitance per element (Note 1)		Cj	47	pF	

THERMAL CHARACTERISTICS

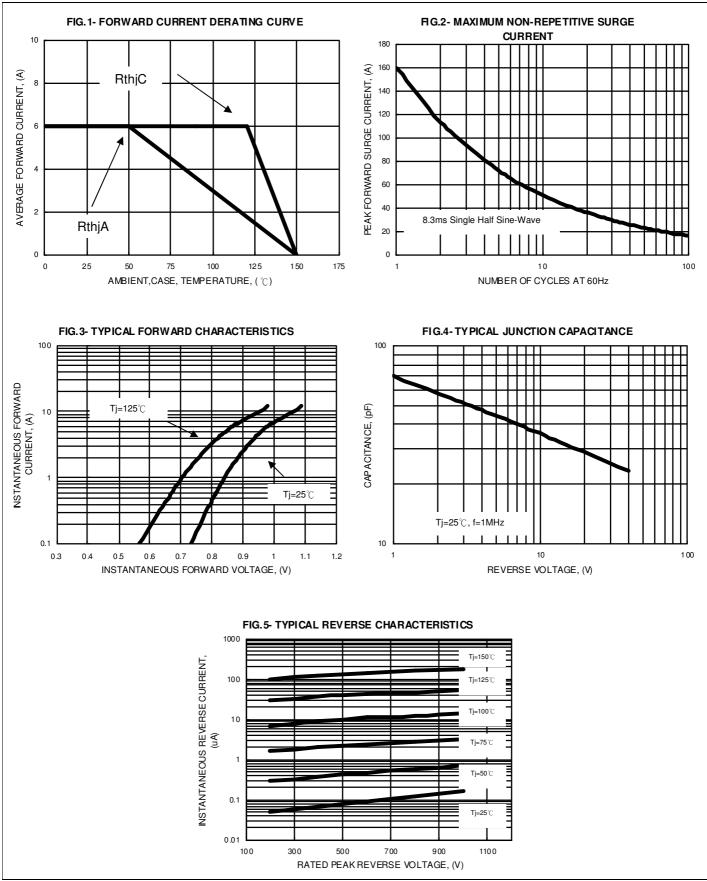
THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical thermal resistance (Note3)	RthJ _C RthJ _L RthJ _A	3 2 10	°C/W
Note : (1) Measured at 1.0MHz and applied reverse voltage of	REV.1 , Apr-2018,	KBDQ09	

Note : (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC (2) Thermal resistance junction to case, lead and ambient in accordance with JESD-51. Unit mounted on 100mmx75mmx27mm Fin heatsink.

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RATING AND CHARACTERISTIC CURVES GBL610

LITEON



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