

GBP808N

REVERSE VOLTAGE – 800 Volts **GLASS PASSIVATED BRIDGE RECTIFIERS** FORWARD CURRENT -8.0 Ampere **FEATURES** GBP Rating to 800V PRV GBP · Ideal for printed circuit board Dim. Min. Max. в А 14.2 14.7 • Reliable low cost construction utilizing molded plastic 2.9 3.3 В technique С 10.1 10.7 • The plastic material has UL flammability classification С D 14.4 13.8 94-0 E 2.2 Е 1.8 ψP • UL recognized file#E95060 F 6.65 7.25 G 3.71 3.91 Н 0.4 0.6 Ι 1.20 1.40 0 **MECHANICAL DATA** J 0.64 0.84 • Case Material: "Green" molding compound, UL 0 1.8 2.4 flammability classification 94V-0, (No Br. Sb. Cl) G Р **3**.1 ¢ **3.3** ϕ + 4 All Dimensions in millimeter · Polarity indicator: As marked on body • Weight: 1.33 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER		SYMBOL	GBP808N	UNIT	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	800	V	
Maximum DC Blocking Voltage		V _{DC}	800	V	
Maximum Average Forwardwith Heat-sinkRectified Current @TA = 25 $^{\circ}$ Cwithout Heat-sink	<	I _(AV)	8.0 1.5	A	
	@8.3ms @1.0ms	I _{FSM}	165 330	А	
Maximum Forward Voltage at 4.0A DC		V _F	1.05	V	
Maximum DC Reverse Current@ $T_J = 25^{\circ}C$ at Rated DC Blocking Voltage@ $T_J = 125^{\circ}C$		I _R	1 100	uA	
I ² t Rating for fusing (t < 8.3ms)		l ² t	110	A ² S	
Typical Junction Capacitance (Note 1)		CJ	45	pF	
Typical Thermal Resistance (Unit mounted on 150 mm x 150 mm x 2 mm Cu Plate H	leatsink)	R _{⊕JC} R _{⊕JL} R _{⊕JA}	3.2 4.8 8	°C/W	
Typical Thermal Resistance (Without Heatsink)		R _{⊕JC} R _{⊕JL} R _{⊕JA}	9.5 24 28	°C/W	
Operating and Storage Temperature Range		T _J , T _{STG}	-55 to +150	°C	
Note :			REV. 1, Feb-2012, KI	REV. 1, Feb-2012, KBDG13	

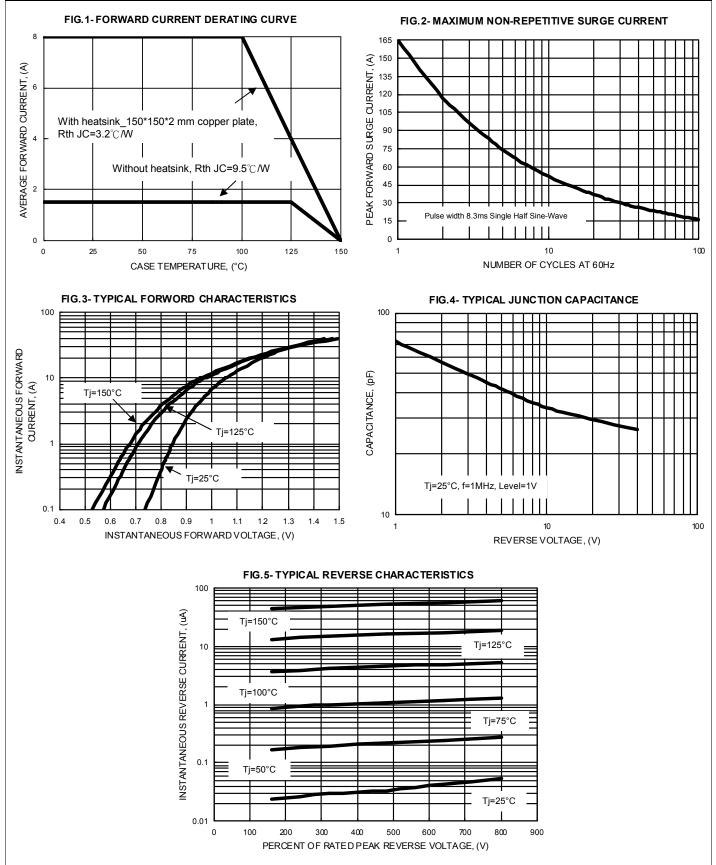
Note :

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

Device mounted on 150 mm x 150 mm x 2 mm Cu Plate Heatsink (2)

RATING AND CHARACTERISTIC CURVES GBP808N

LITEON





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