LITEON LITE-ON SEMICONDUCTORS

GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- Rating 400 to 1000V PRV
- Low forward voltage drop
- Solderable 0.25" FAST ON terminals
- The plastic material has UL flammability classification 94-0
- UL recognized file#E95060

MECHANICAL DATA

- · Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
- · Polarity : As marked on Body
- Mounting : Hole for # 10 screw
- Weight : 0.63 ounces , 18.0 grams (terminal) : 0.51 ounces , 14.5 grams (wire)

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

A28BSOLUTE RATINGS

PARAMETER	SYMBOL	GBPC5004	GBPC5006	GBPC5008	GBPC5010	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	600	800	1000	V
Maximum DC Blocking Voltage	V _{DC}	400	600	800	1000	V
Maximum Average Forward Rectified Current $@TC = 55 \degree$	I _(AV)	50			A	
Peak Forward Surge Current8.3ms single half sine-wave@ $T_J = 25^{\circ}C$	I _{FSM}	450		А		
Typical Junction Capacitance (Note 1)	CJ	180		pF		
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150		°C		

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS	SYMBOL	MAX.	UNIT
Maximum Forward Voltage at 25A DC		V _F	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _J = 25℃	I _R	10	uA
Note : REV. 0, Jul-2017, KB				

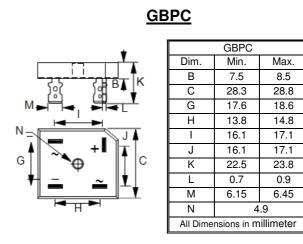
Note :

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

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

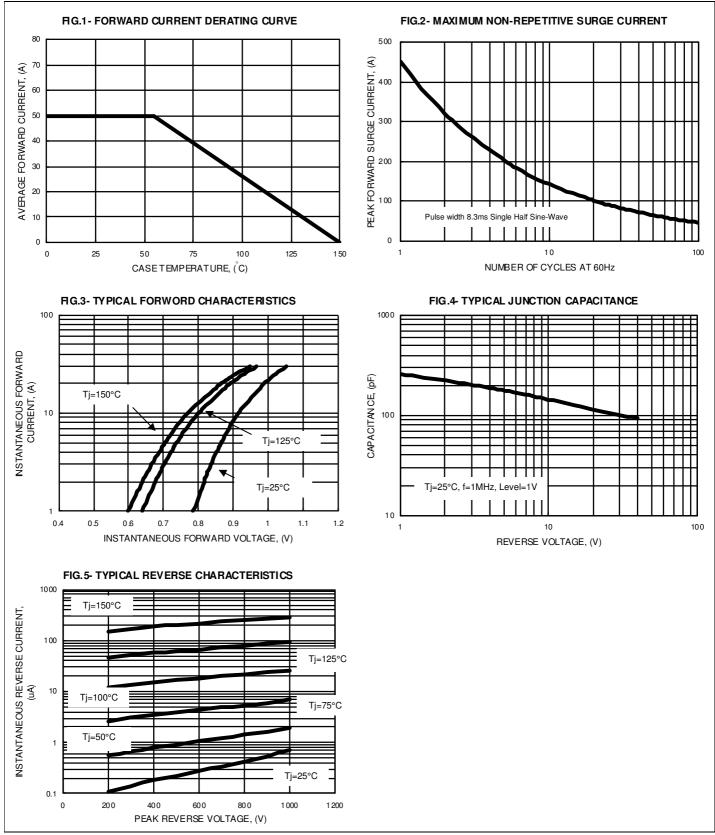
GBPC5004 thru GBPC5010

REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT – 50 Ampere



RATING AND CHARACTERISTIC CURVES GBPC5004 thru GBPC5010







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