LITE ON SEMICONDUCTOR

GBU404 thru GBU410

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 400 to 1000 Volts FORWARD CURRENT - 4.0 Amperes

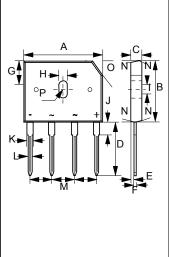
GBU

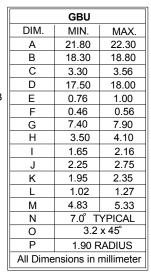
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060

MECHANICAL DATA

- Polarity : As marked on Body
- Weight : 0.15 ounces, 4.0 grams
- Mounting position : Any





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

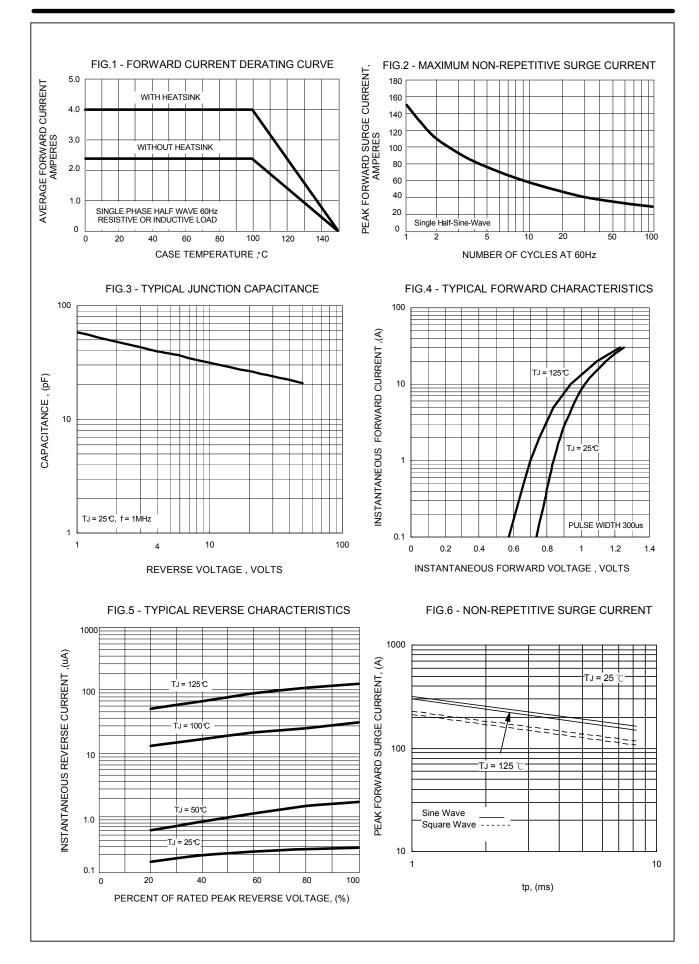
CHARACTERISTICS		SYMBOL	GBU 404	GBU 406	GBU 408	GBU 410	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	400	600	800	1000	V
Maximum RMS Voltage		VRMS	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @Tc=100°C (without heatsink)		I(AV)	4.0 2.4				A
Peak Forward Surge Current (Non-repetitive)	8.3ms single half sine-wave Tj=25℃ superimposed on Tj=125℃ rated load	Іғѕм	160 150 320 300				A
	1ms square wave Tj=25℃ Tj=125℃						
Maximum forward Voltage at 2.0A DC		VF	1.0				v
Maximum DC Reverse Current@TJ =25°Cat Rated DC Blocking Voltage@TJ =125°C		IR	5.0 500				uA
I ² t Rating for fusing (3ms $\leq t \leq$ 8.3ms)		l ² t	93				A ² S
Typical Junction Capacitance per element (Note 1)		Cı	40				pF
Typical Thermal Resistance (Note 2)		R0 JC R0 JA R0 JL	3.0 15 3.0				°C /W
Operating Temperature Range		TJ	-55 to +150			°C	
Storage Temperature Range		Тѕтс	-55 to +150			°C	

NOTE : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

REV. 9, Dec-2010, KBDJ01

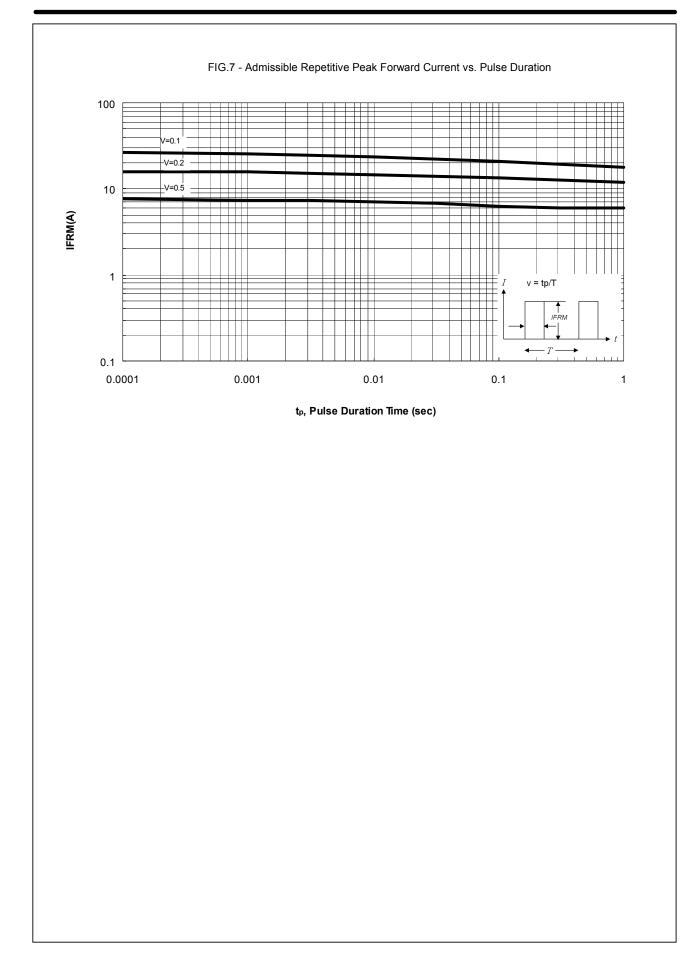
2.Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

RATING AND CHARACTERISTIC CURVES GBU404 thru GBU410



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