

**GLASS PASSIVATED BRIDGE RECTIFIERS**

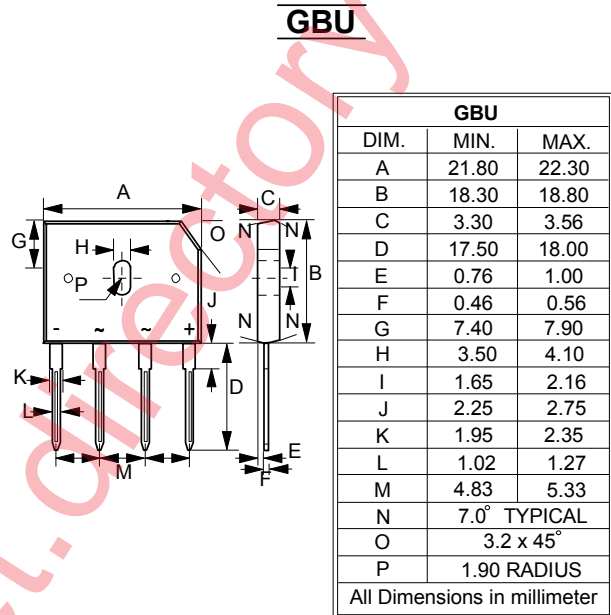
REVERSE VOLTAGE - **400 to 1000** Volts  
FORWARD CURRENT - **4.0** Amperes

**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	V <sub>RRM</sub>	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T <sub>c</sub> =100°C (without heatsink)	I <sub>(AV)</sub>	4.0 2.4				A
Peak Forward Surge Current (Non-repetitive)	8.3ms single half sine-wave superimposed on rated load T <sub>j</sub> =25°C T <sub>j</sub> =125°C	160 150				A
		1ms single half sine-wave T <sub>j</sub> =25°C T <sub>j</sub> =125°C				
Maximum forward Voltage at 2.0A DC	V <sub>F</sub>	1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	5.0 500				uA
I <sup>2</sup> t Rating for fusing (3ms ≤ t ≤ 8.3ms)	I <sup>2</sup> t	93				A <sup>2</sup> S
Typical Junction Capacitance per element (Note 1)	C <sub>J</sub>	40				pF
Typical Thermal Resistance (Note 2)	R <sub>θ JC</sub>	3.0				°C/W
	R <sub>θ JA</sub>	15				
	R <sub>θ JL</sub>	3.0				
Operating Temperature Range	T <sub>J</sub>	-55 to +150				°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150				°C

NOTE : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2.Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink.

REV. 12, Sep-2012, KBDJ01

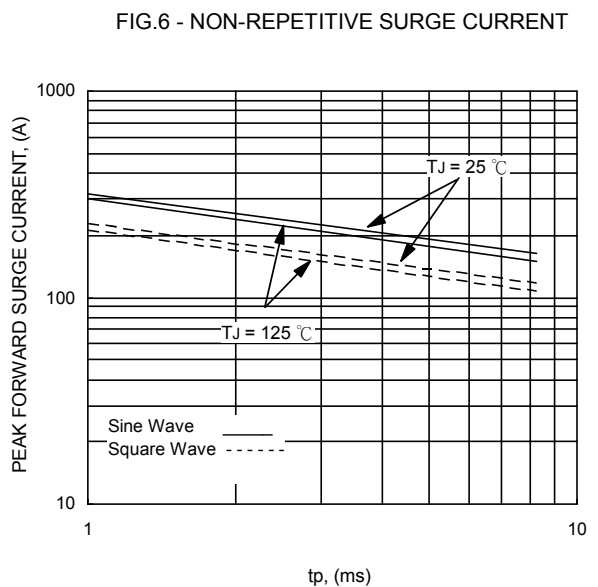
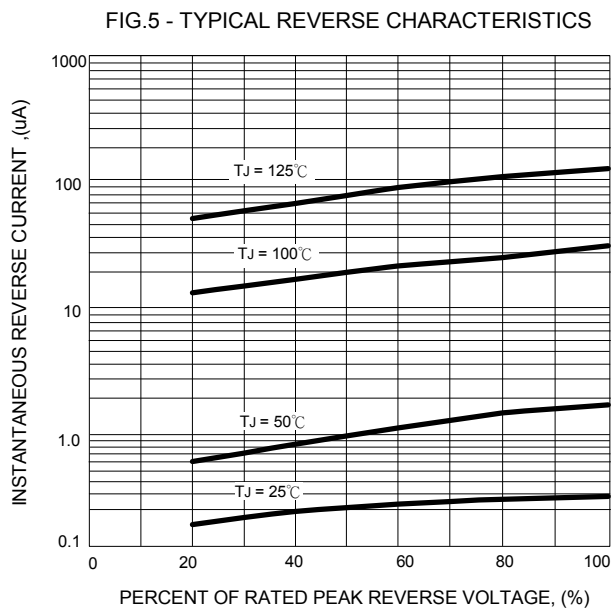
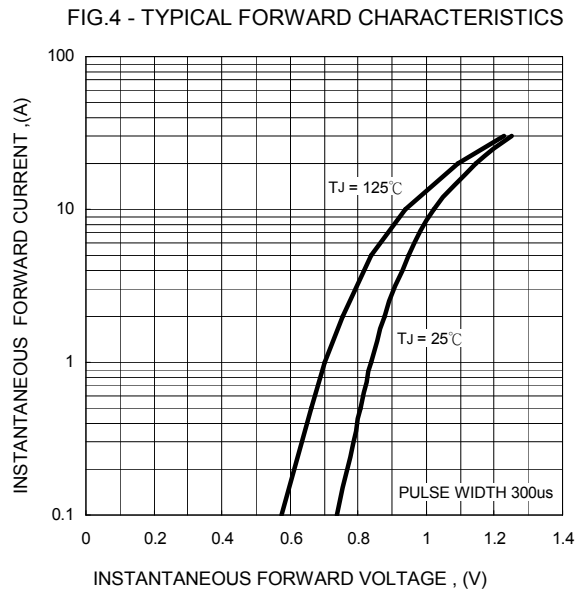
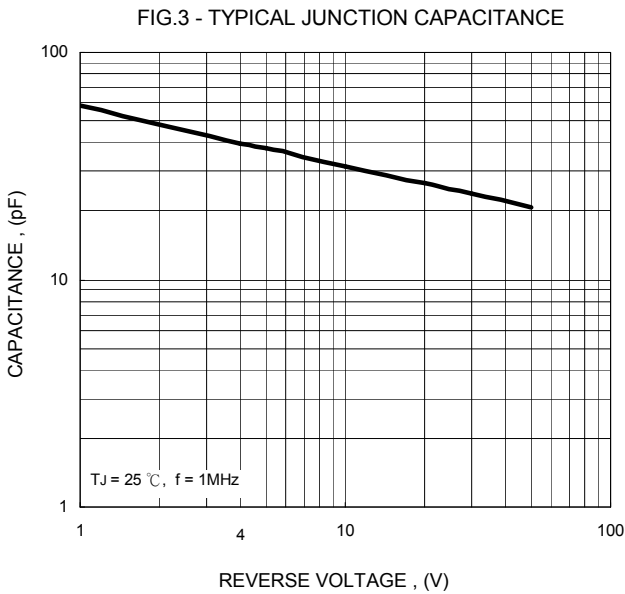
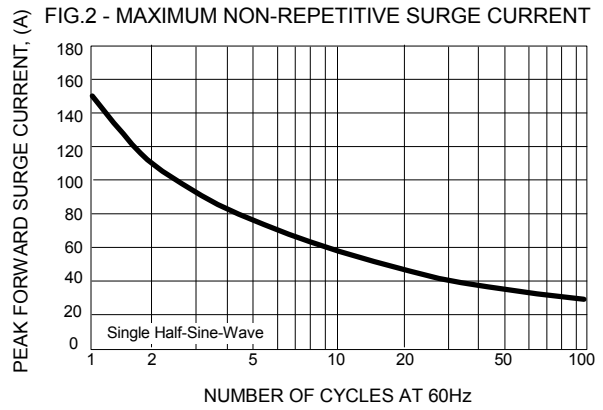
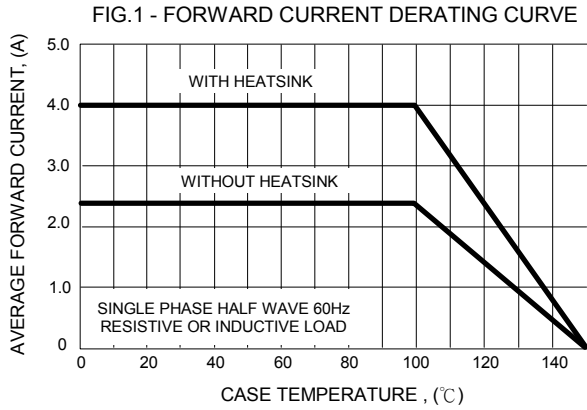
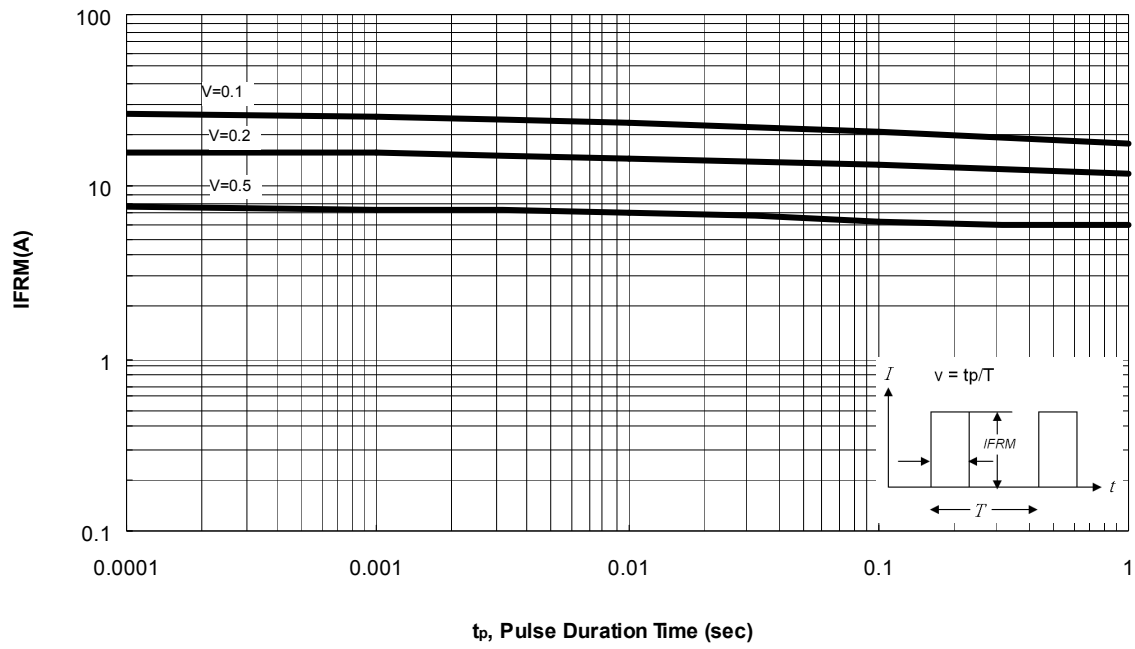


FIG.7 - Admissible Repetitive Peak Forward Current vs. Pulse Duration



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