

GLASS PASSIVATED BRIDGE RECTIFIERS

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

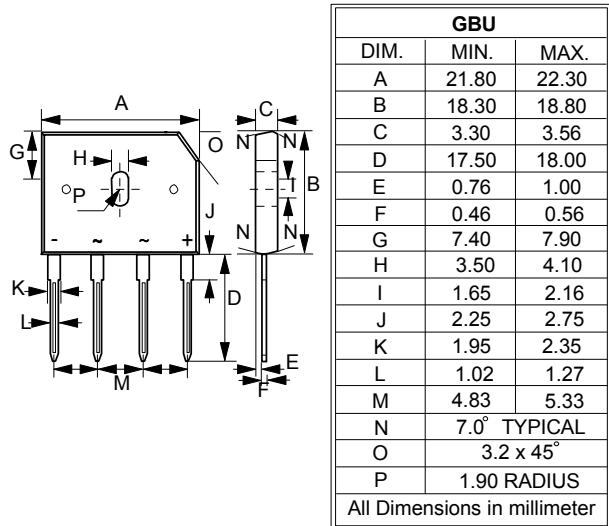
FEATURES

- 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
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MECHANICAL DATA

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

GBU



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)	I _{FSM}	8.3ms single half sine-wave T _J =25°C		160		A
		superimposed on rated load T _J =125°C		150		
		1ms single half sine-wave T _J =25°C		320		
		T _J =125°C		300		
Maximum forward Voltage at 2.0A DC	V _F	1.0				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	@T _J =25°C @T _J =125°C		5.0 500		uA
I ² t Rating for fusing (3ms ≤ t ≤ 8.3ms)	I ² t	93				A ² S
Typical Junction Capacitance per element (Note 1)	C _J	40				pF
Typical Thermal Resistance (Note 2)	R _{θ JC}	3.0				°C/W
	R _{θ JA}	15				
	R _{θ JL}	3.0				
Operating Temperature Range	T _J	-55 to +150				°C
Storage Temperature Range	T _{STG}	-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.

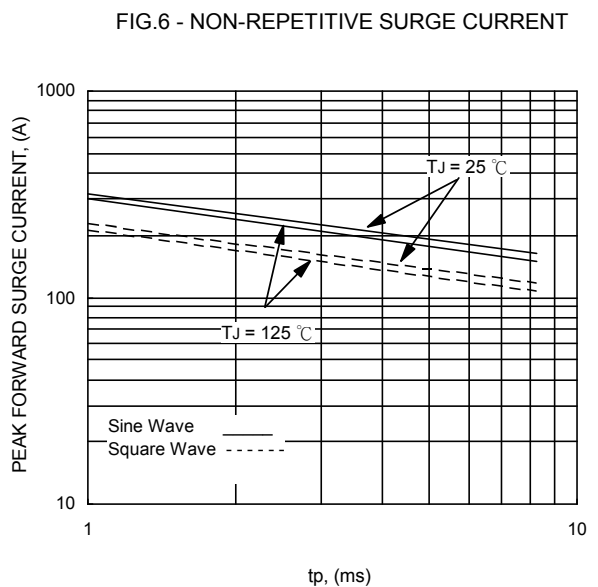
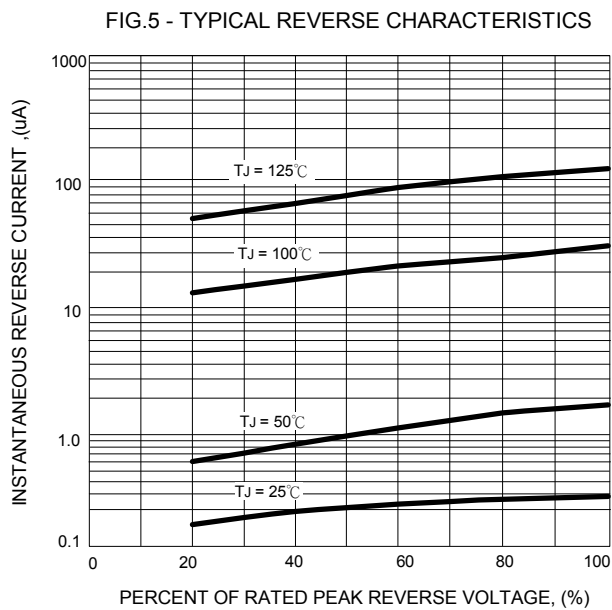
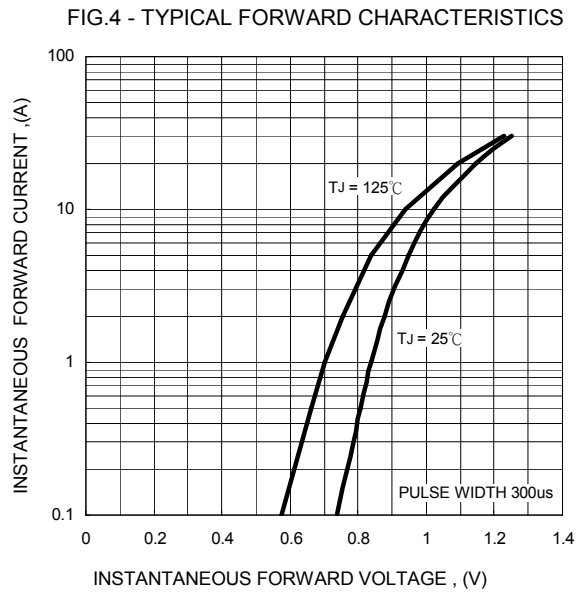
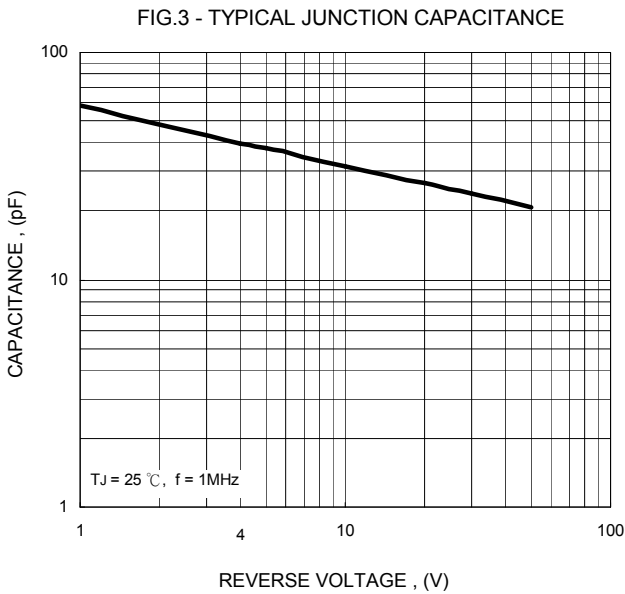
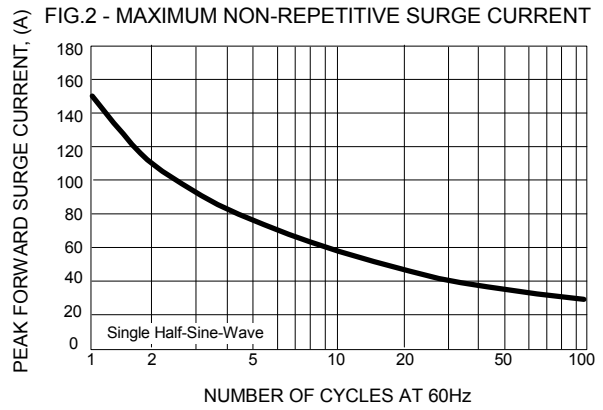
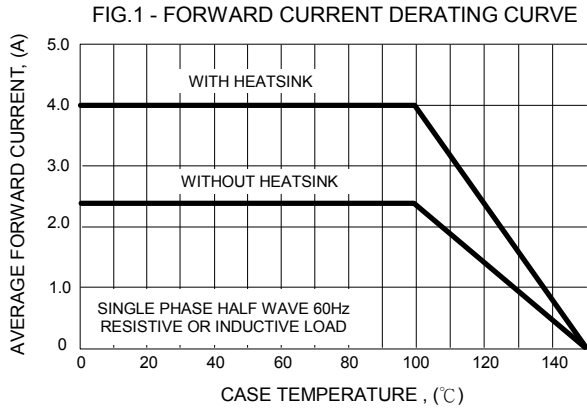


FIG.7 - Admissible Repetitive Peak Forward Current vs. Pulse Duration

