

GLASS PASSIVATED BRIDGE RECTIFIERS

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

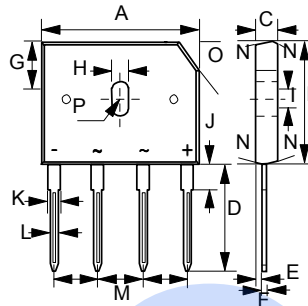
FEATURES

- 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

GBU



GBU		
DIM.	MIN.	MAX.
A	21.80	22.30
B	18.30	18.80
C	3.30	3.56
D	17.50	18.00
E	0.76	1.00
F	0.46	0.56
G	7.40	7.90
H	3.50	4.10
I	1.65	2.16
J	2.25	2.75
K	1.95	2.35
L	1.02	1.27
M	4.83	5.33
N	7.0° TYPICAL	
O	3.2 x 45°	
P	1.90 RADIUS	

All Dimensions in millimeter

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 _{RRM}	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T _c =100°C (without heatsink)	I _(AV)			4.0 2.4		A
Peak Forward Surge Current (Non-repetitive)	8.3ms single half sine-wave superimposed on rated load T _j =25°C T _j =125°C	I _{FSM}		160		A
				150		
	1ms single half sine-wave T _j =25°C T _j =125°C			320 300		
Maximum forward Voltage at 2.0A DC	V _F			1.0		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =125°C	I _R			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.

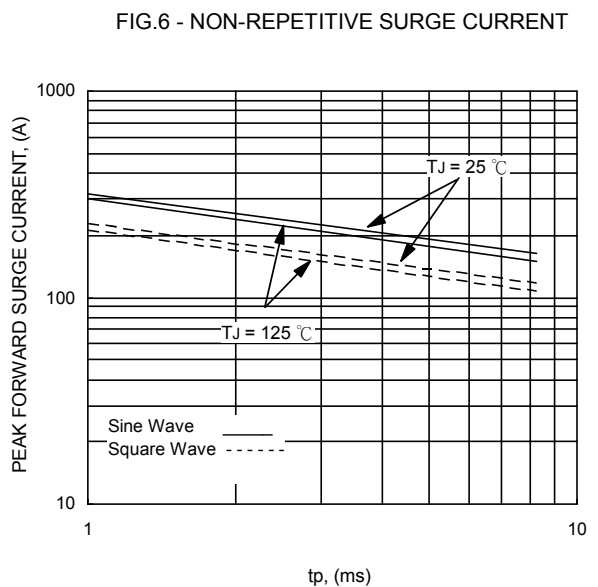
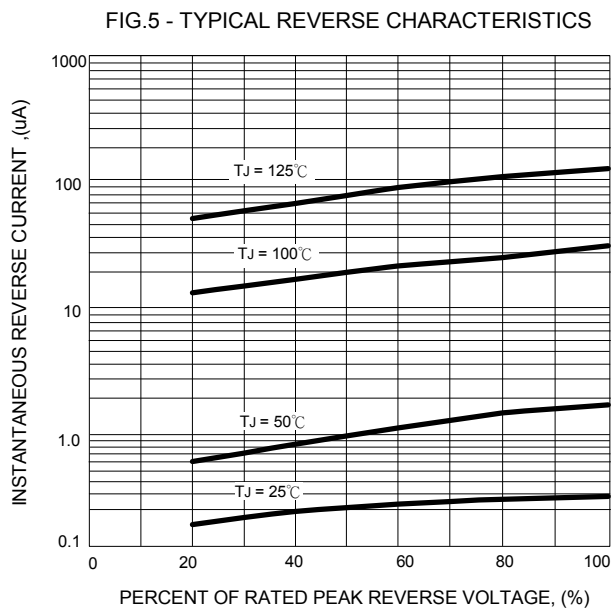
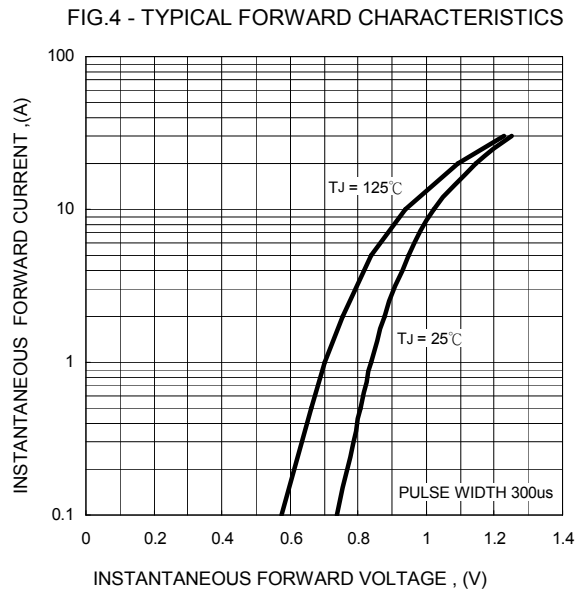
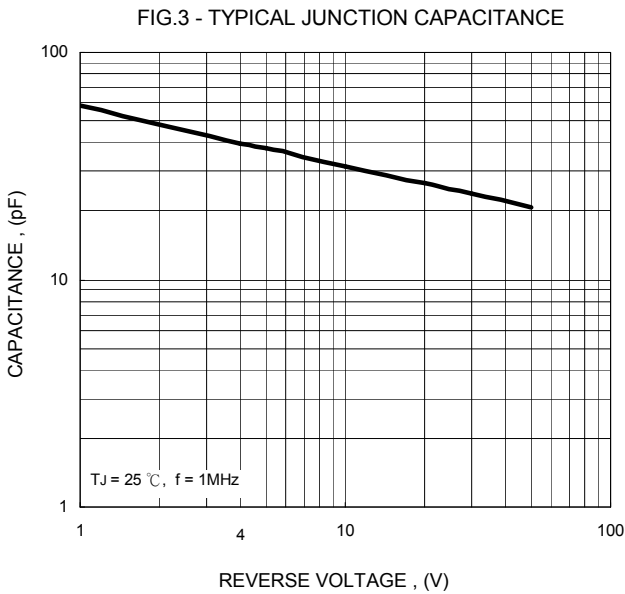
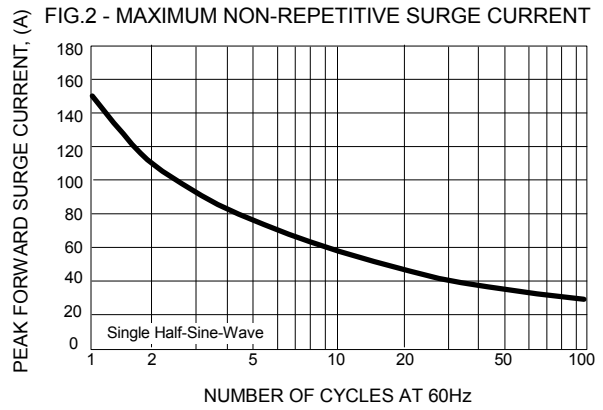
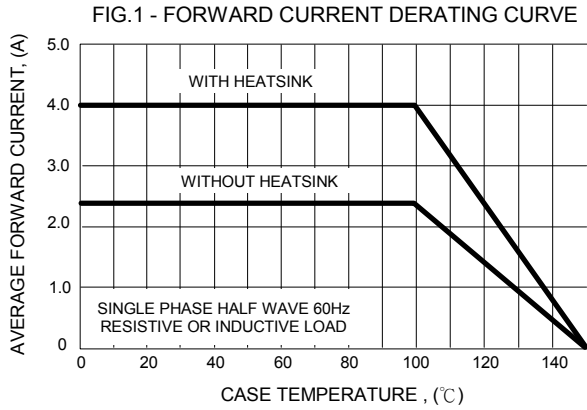
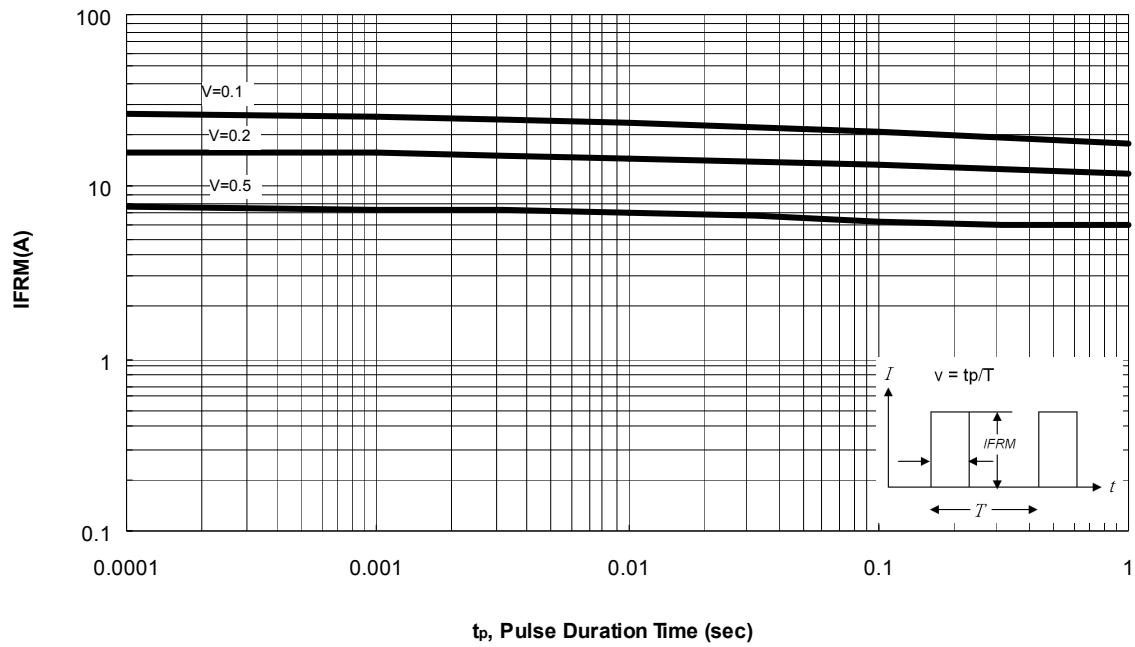


FIG.7 - Admissible Repetitive Peak Forward Current vs. Pulse Duration



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