

GBU404 thru GBU410

GLASS PASSIVATED BRIDGE RECTIFIERS

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

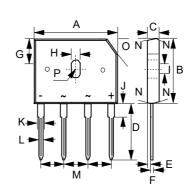
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- UL recognition file # E95060
- The Plastic material, UL flammability classification

MECHANICAL DATA

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

GBU



GBU				
DIM	MIN	MAX		
Α	21.80	22.30		
В	18.30	18.80		
С	3.30	3.56		
D	17.50	18.00		
E	0.76	1.00		
F	0.46	0.56		
G	7.40	7.90		
Н	3.50	4.10		
ı	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° T	PICAL		
0	(3.2) x 45°			
Р	1.90 PADIUS			
All dimension in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	GBU404	GBU406	GBU408	GBU410	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	400	600	800	1000	V
Maximum DC blocking voltage		V_{DC}	400	600	800	1000	V
Average rectified output current per device	With heatsink,@Tc=100°C Withoutheatsink,@Tc=100°C	I _(AV)	4.0 2.4			Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}	160 150		Α		
Peak forward surge current 1.0ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C	I _{FSM}	320 300		Α		
I ² trating for fusing (t = 8.3ms)		I²t	106		A ² S		
Storage,Operating temperature range		T _J ,T _{STG}		-55 to	+150		°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TES	T CONDITION	SYMBOL	TYP. MAX	UNIT
Forward voltage (Note1)	I _F = 2A	T _A = 25°C	VF	1.0	V
Leakage current	V _R at rated	T _A = 25°C T _A = 125°C (Note1)	I _R	5 500	uA
Typical junction capacitance (Note2)			Сл	40	pF

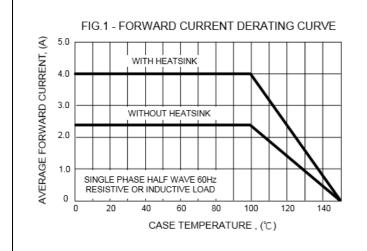
THERMAL CHARACTERISTICS

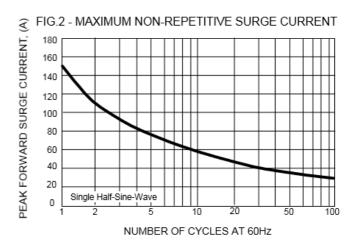
PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (without heatsink) Typical thermal resistance (Note3)	RthJ _A RthJ _L RthJ _C	15 3.0 3.0	°C/W
N. d	DEV 12 Mar	2019 KBD 101	

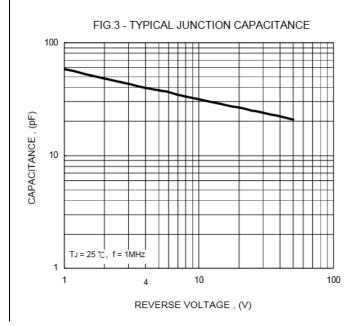
- (1) Perform static test after the temperature of oven is steady 20 minutes.
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
 (3) Device mounted on 50 mm * 50 mm *1.6mm Cu Plate heatsink.

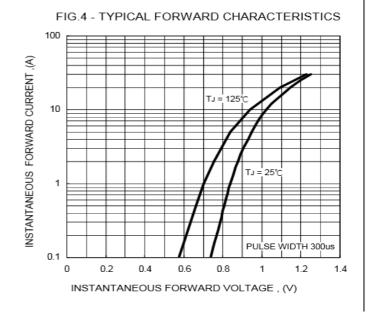
RATING AND CHARACTERISTIC CURVES GBU404 thru GBU410













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