

GBU1504 thru GBU1510

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 400 to 1000 Volts FORWARD CURRENT – 15 Amperes

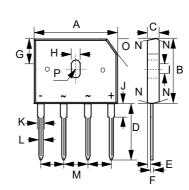
FEATURES

- 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 94V-0

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° TYPICAL			
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			GBU1504	GBU1506	GBU1508	GBU1510	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)	15 3.2			Α	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C	I _{FSM}	200			Α	
I ² trating for fusing (t = 8.3ms)		I²t	166			A ² S	
Mounting Torque (Recommended torque: 0.5 N.m)		TOR	0.8			N.m	
Operating and storage temperature range		T_J , T_{STG}	-55 to +150			°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		TEST CONDITION		SYMBOL	TYP. MAX	UNIT
Forward voltage (Note1)	I _F = 7.5A	T _A = 25°C	V _F	1.1	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)		CJ	50	pF			

THERMAL CHARACTERISTICS

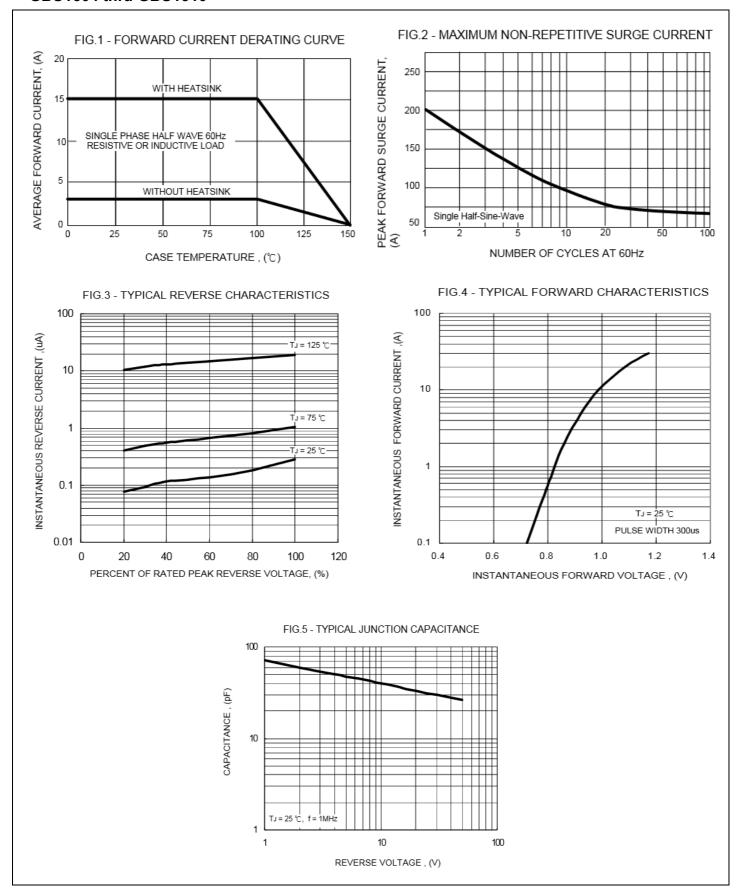
PARAMETER	SYMBOL	TY	YP.	UNIT	
Typical thermal resistance (Note2)	RthJ _C	2	2.0	°C/W	
			REV.5, Mar-2019,KBDJ08		

Note:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (2) Device mounted on 200 mm * 200 mm * 5mm Al Plate heatsink.

RATING AND CHARACTERISTIC CURVES GBU1504 thru GBU1510







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