



GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - 800 Volts FORWARD CURRENT - 25 Amperes

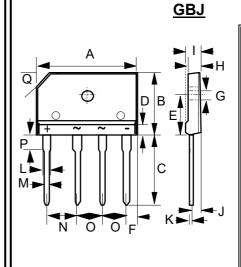
FEATURES

- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- UL recognition file # E95060

MECHANICAL DATA

• Case: GBJ

- Case Material: Plastic material, UL flammability classification 94V-0
- Component in accordance to RoHs 2002/95/EC
- Polarity indicator: Symbol molded on body
- Weight: 6.82 grams (Approximate)



GBJ			
DIM	MIN	MAX	
Α	29.70	30.30	
В	19.70	20.30	
С	17.00	18.00	
D	4.70	4.90	
E	10.80	11.20	
F	2.30	2.70	
G	3.10Ø	3.40Ø	
Η	3.40	3.80	
I	4.40	4.80	
7	2.50	2.90	
K	0.60	0.80	
L	2.00	2.40	
М	0.90	1.10	
N	9.80	10.20	
0	7.30	7.70	
Р	3.80	4.20	
ø	(3.0) x 45°		
All dimension in			
millimeter			
-			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	GBJ25V08	UNIT
Device marking code		Note	GBJ25V08	
Maximum repetitive peak reverse voltage		V_{RRM}	800	V
Maximum DC blocking voltage		VDC	800	V
Average rectified output current per device	With heatsink Without heatsink	I _(AV)	25 4.8	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C (Note1)	Iгsм	600 480	Α
Peak forward surge current 1ms single half sine-wave superimposed on rated load	@ T _A =25°C @ T _A =125°C (Note1)	I _{FSM}	1200 960	Α
I ² trating for fusing (t = 8.3ms)		I²t	1494	A ² S
Operating and storage 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 = 12.5A	$T_A = 25$ °C $T_A = 125$ °C (Note1)	V _F	0.91 	0.94 	V
Leakage current	V _R at rated	$T_A = 25$ °C $T_A = 125$ °C (Note1)	I _R	5 500		uA
Typical junction capacitance (Note 2)		CJ	168	3	pF	

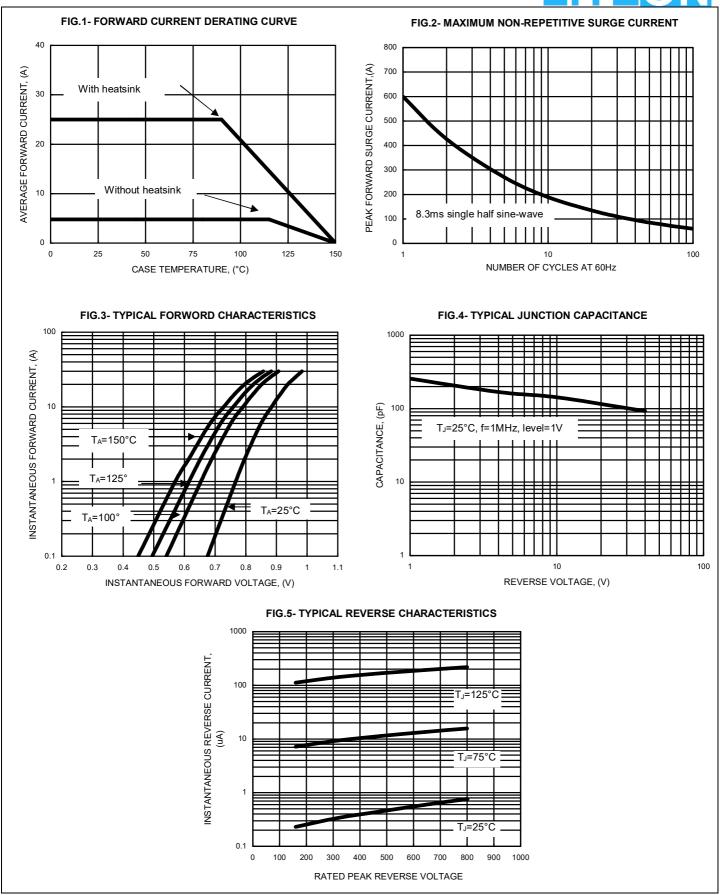
THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
	RthJc	2	
Typical thermal resistance (Note 3)	RthJ∟	5	°C/W
	$RthJ_A$	5	
Note:		REV.2, Apr2019, I	(BDG42

- (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) Thermal resistance junction to case, lead and ambient in accordance with JESD-51. Unit mounted on 195 mm*110 mm*10 mm steel plate

RATING AND CHARACTERISTIC CURVES GBJ25V08







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