



GLASS PASSIVATED BRIDGE RECTIFIERS

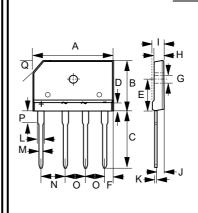
REVERSE VOLTAGE - 600Volts FORWARD CURRENT - 15 Amperes

FEATURES

- Low forward Voltage (VF) Drop performance
- High Thermal Radiation
- High Average Current
- High Surge Current Capability
- UL Recognition file # E95060

MECHANICAL DATA

- Case: GBJ
- Case Material: "Green" molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl)
- Component in accordance to RoHs 2002/95/EC
- Polarity indicator: Symbol molded on body
- Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any



	GBJ				
	DIM.	MIN.	MAX.		
	Α	29.70	30.30		
I	В	19.70	20.30		
Ι	С	17.0	18.0		
	D	4.70	4.90		
	E	10.80	11.20		
	F	2.30	2.70		
	G	3.10 Ø	3.40 ∅		
	Н	3.40	3.80		
	I	4.40	4.80		
	J	2.50	2.90		
	K	0.60	0.80		
	L	2.00	2.40		
	M	0.90	1.10		
	N	9.80	10.20		
	0	7.30	7.70		
	Р	3.80	4.20		
	Q	(3.0) x 45°			
	All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	GBJ15JL	UNIT
Device marking code	Note	GBJ15JL	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Average Rectified Output Current With heatsink Tc=120°C Without heatsink Tc=120°C	IF(AV)	15 4.5	Α
Peak Forward Surge Current 8.3ms single half T_J =25 °C sine-wave, T_J =125 °C	IFSM	200 160	Α
Peak Forward Surge Current 1.0ms single half T_J =25 $^{\circ}$ C sine-wave, T_J =125 $^{\circ}$ C	IFSM	400 320	Α
I²t Rating for fusing (t = 8.3ms)	I ² t	166	A ² S
Storage temperature range	TSTG	-55 to +150	°C
Operating junction temperature range	TJ	-40 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

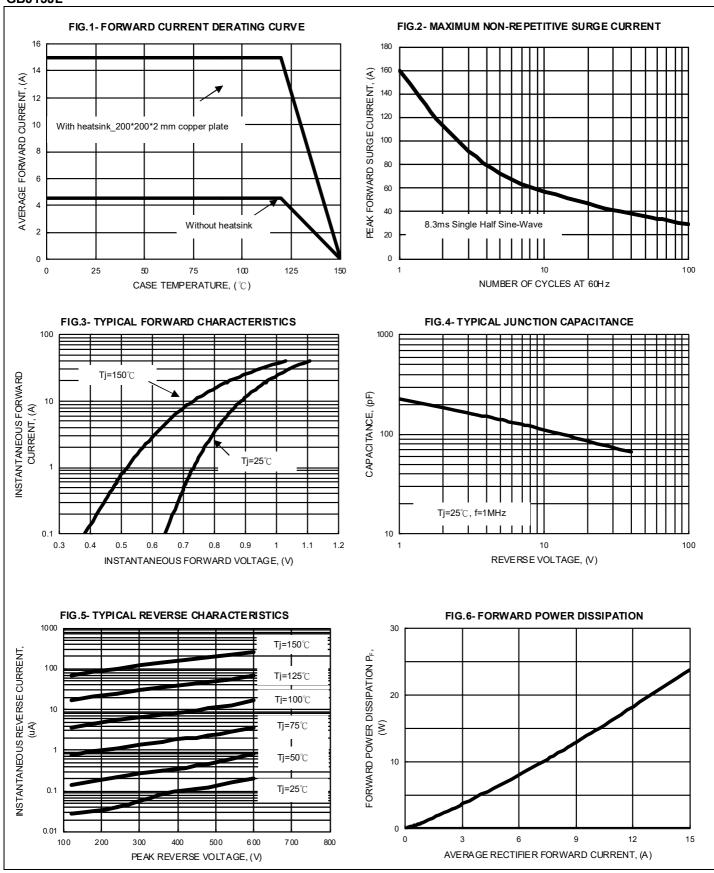
PARAMETER	TEST CC	NDITIONS	SYMBOL	Min.	Тур.	Max.	UNIT
Breakdown voltage	IR=10uA	Tj=25°C	VB	600			V
Forward Voltage (1)	IF=7.5A	Tj=25°C	VF		0.86	0.90	V
Leakage Current	VR=600V	Tj=25°C	lR			10	uA

THERMAL CHARACTERISTICS

THERMAL CHARACTERISTIC	SYMBOL	Typical	UNIT
Typical Junction Capacitance per element (Note 1)	Cj	80	pF
Typical thermal resistance_Junction to Case (2)	R⊕JC	1.2	°C/W
Typical thermal resistance_Junction to Lead (2)	Rejl	2.3	°C/W
Note:	REV.2, Apr-2019, KB	REV.2, Apr-2019, KBDG47	

- 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 2. Device mounted on 200mm x 200mm x 2mm Cu Plate Heatsink.







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