

GLASS PASSIVATED BRIDGE RECTIFIER

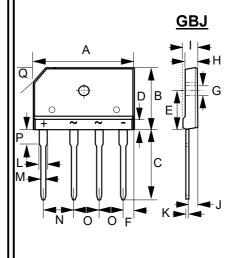
REVERSE VOLTAGE –1000 Volts FORWARD CURRENT – 50 Amperes

FEATURES

- Rating to 1000V PRV
- · Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- UL recognition file # E95060

MECHANICAL DATA

- Case Material: Green molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.)
- Polarity indicator: Symbol molded on body
- Weight: 7.2 grams (Approximate)
- Marking code: GBJ5010



GBJ			
DIM	MIN	MAX	
Α	29.70	30.30	
В	19.70	20.30	
С	17.00	18.00	
D	4.70	4.90	
Е	10.80	11.20	
F	2.30	2.70	
G	3.10Ø	3.40Ø	
Н	3.40	3.80	
ı	4.40	4.80	
J	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	
Q	(3.0) x 45°		
All dimension in			
millimeter			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

ABSOLUTE RATINGS					
PARAMETER	SYMBOL	VALUE	UNIT		
Maximum repetitive peak reverse voltage	V _{RRM}	1000	V		
Maximum DC blocking voltage	V _{DC}	1000	V		
Average rectified output current per device with heatsink (Note 2) without heatsink @ T _C = 85°C	I _(AV)	50 4.9	Α		
Peak forward surge current 8.3ms single half sine-wave @ T _J =25°C superimposed on rated load @ T _J =125°C	I _{FSM}	500 400	Α		
Peak forward surge current 1ms single half sine-wave @ T _J =25°C superimposed on rated load @ T _J =125°C	I _{FSM}	1000 800	Α		
I ² t rating for fusing (t = 8.3ms)	I²t	1037	A ² S		
Mounting Torque (recommended torque: 0.5 N.m)	TOR	0.8	N.m		
Operating and storage temperature range	TJ	-55 to +150	°C		
Storage temperature range	T _{STG}	-55 to +150	°C		

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	MAX	UNIT
Forward voltage (Note 1)	I _F = 25A	T _J = 25°C	V _F	1.1	V
Leakage current	V _R = 1000V	T」= 25°C T」= 125°C	I _R	10 500	uA
Typical junction capacitance (Note 1)			Сл	205	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	Typical	UNIT
Typical thermal resistance (Note 2)	RthJ₄ RthJc RthJ∟	1.6 0.4 1.2	°C/W

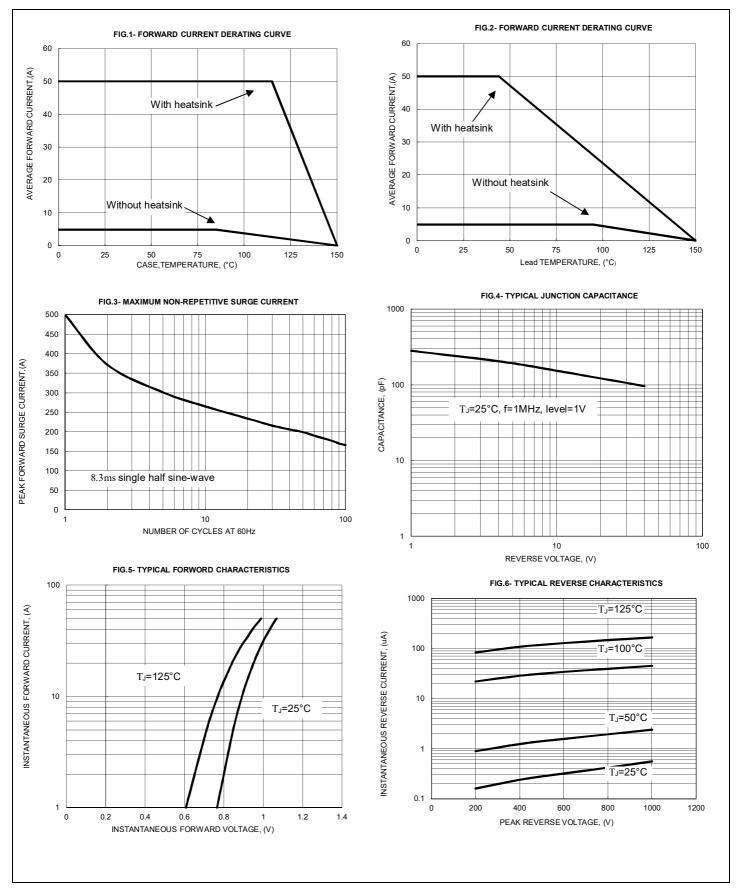
Note:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (2) Thermal Resistance Junction to Lead, device mounted on heatsink.

REV.3, Apr.-2019, KBDG51

RATING AND CHARACTERISTIC CURVES GBJ5010







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