GBJ2006 - GBJ2010(LS)

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE – 600 to 1000 Volts FORWARD CURRENT – 20 Amperes

FEATURES

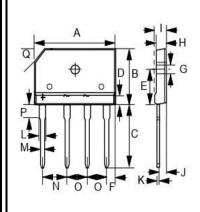
- Rating to 1000V PRV
- · Ideal for printed circuit board
- Low forward voltage drop, high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- UL Recognition File # E95060
- Available in "Green" Package: GBJ
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

Polarity: Symbols molded on bodyWeight: 0.23 ounces, 6.6 grams

• Mounting position : Any

<u>GBJ</u>



GBJ					
Dim.	Min.	Max.			
Α	29.70	30.30			
В	19.70	20.30			
B C D	17.0	18.0			
D	4.70	4.90			
E	10.80	11.20			
F	2.30	2.70			
G	3.10ø	3.40ø			
Н	3.40	3.80			
-	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) × 45°				
All Dimensions in					
millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

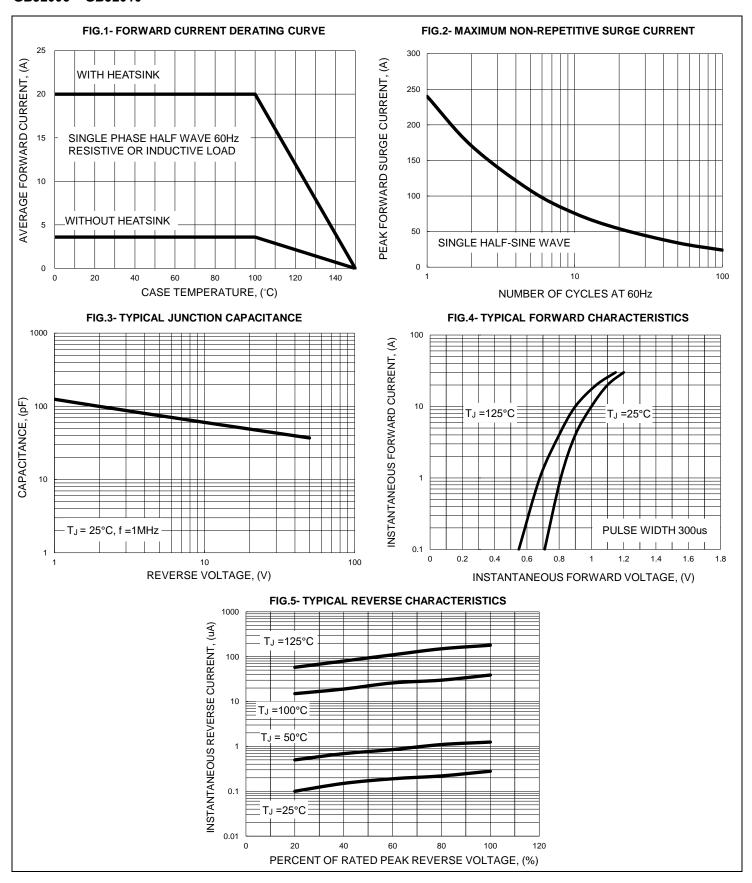
CHARACTERISTICS	SYMBOL	GBJ2006	GBJ2008	GBJ2010	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC blocking voltage	V_{DC}	600	800	1000	V
Maximum average forward (with heatsink Note4) Rectified current @TC =100°C (without heatsink)	I _(AV)	20.0 3.6		А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	240			Α
Maximum forward voltage at 10.0A DC	V_{F}	1.05			V
Maximum DC reverse current @TJ =25°C at rated DC Blocking voltage @TJ =125°C	I _R		10 500		uA
I^2 t rating for fusing (t = 8.3ms)	I ² t	240			A ² S
Typical junction capacitance per element (Note 5)	Сл	80			pF
Typical thermal resistance (Note4)	R_{thJC}	0.8			°C/W
Operating temperature range	TJ	-55 to +150			°C
Storage temperature range	T _{STG}	-55 to +150			°C

Note: REV-8, Nov-2021, KBDG05

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heat sink.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



RATING AND CHARACTERISTIC CURVES GBJ2006 – GBJ2010

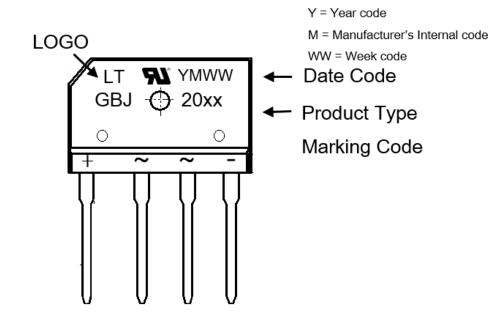




Ordering Information:

Part Number	Dookogo	Packing		
Part Number	Package Q		Carrier	
GBJ2006_HF	GBJ	15pcs	Tube	
GBJ2008_HF	GBJ	15pcs	Tube	
GBJ2010_HF	GBJ	15pcs	Tube	

Marking Information:





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