



LITE-ON SEMICONDUCTOR

KBJ2006G-KBJ2008G(LS)

GLASS PASSIVATED BRIDGE RECTIFIER

REVERSE VOLTAGE – 600 to 800 Volts FORWARD CURRENT – 20 Amperes

FEATURES

- Rating to 1000V PRV
- · Ideal for printed circuit board
- Reliable construction utilizing molded plastic technique results in inexpensive product.
- The plastic material has UL flammability classification.
- UL recognized file # E95060
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- · Halogen and Antimony Free. "Green" Device (Note 3)

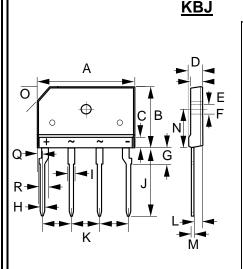
MECHANICAL DATA

· Package: KBJ

· Polarity indicator: Symbol molded on body

• Weight: 4.69 grams (Approximate)

· Mounting position: Any



KBJ					
DIM	MIN	MAX			
Α	24.80	25.20			
A B C D	14.70	15.30			
С	3.90	4.10			
D	4.40	4.80			
E F	3.40	3.80			
	3.10Ø	3.40Ø			
G	3.30	3.70			
Н	0.90	1.10			
ı	1.50	1.90			
J K	17.20	17.80			
K	7.30	7.70			
L	2.50	2.90			
M	0.60	0.80			
Ν	9.30	9.70			
Q Q	3.0 x 45°				
	1.05	1.45			
R	1.70	2.10			
All dimension in					
millimeter					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

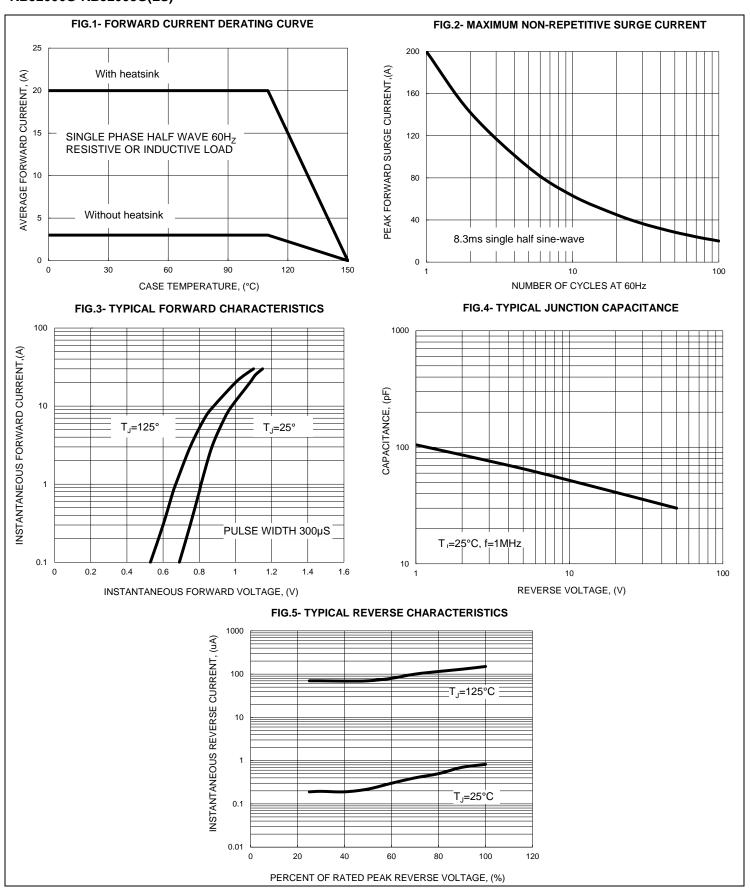
PARAMETER	SYMBOL	KBJ2006G	KBJ2008G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	V
Maximum DC blocking voltage	V_{DC}	600	800	V
Average rectified output current per device $@T_C = 110 ^{\circ}C$ With heatsink (Note 5) Without heatsink	I _(AV)	20 3.		А
Peak forward surge current 8.3ms single half sine-wave superimposed on @ T _J =25°C rated load	I _{FSM}	200		А
Maximum forward Voltage at 10.0A DC	V_{F}	1.	1	V
Maximum DC Reverse Current @ T _J =25°C at Rated DC Blocking Voltage @ T _J =125°C	I _R	5 500		uA
I^2 t Rating for fusing (t = 8.3ms)	l ² t	166		A ² S
Typical Junction Capacitance per element (Note 4)	Ст	70)	pF
Typical Thermal Resistance (Note 5)	$R_{ heta JC}$	0.8		°C/W
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

Note

- 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. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 5. Thermal resistance junction to case. Device mounted on 250mm * 250mm * 20mm Alumni Plate Heatsink, Ta=25°C.



RATING AND CHARACTERISTIC CURVES KBJ2006G-KBJ2008G(LS)

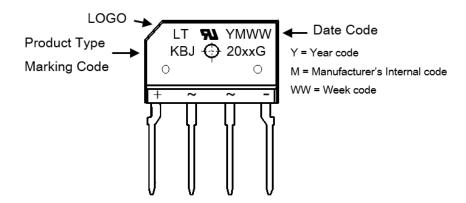




Ordering Information:

Part Number	Dookogo	Packing		
Part Number	Package	Qty.	Carrier	
KBJ2006G_HF	KBJ	20pcs	Tube	
KBJ2008G_HF	KBJ	20pcs	Tube	

Marking Information:





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