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Diodes Incorporated KBJ401G

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Datasheet of KBJ401G - RECTIFIER BRIDGE GPP 100V 4A KBJ

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KBJ4005G - KBJ410G

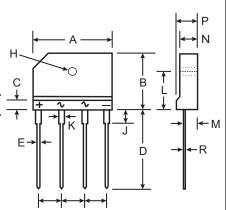
4.0A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 120A Peak
- Ideal for Printed Circuit Board Applications
- UL Listed Under Recognized Component Index, File Number E94661
- Lead Free Finish, RoHS Compliant (Note 4)

Mechanical Data

- Case: KBJ
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Polarity: Molded on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 in-lbs Maximum
- Ordering Information: See Last Page
- Marking: Type Number
- Weight: 4.6 grams (approximate)



KBJ						
Dim	Min	Max				
Α	24.80	25.20				
В	14.70	15.30				
С	4.00 N	4.00 Nominal				
D	17.20	17.80				
E	0.90	1.10				
G	7.30	7.70				
Н	3.10 Ø	3.40 ∅				
J	3.30	3.70				
K	1.50	1.90				
L	9.30	9.70				
М	2.50	2.90				
N	3.40	3.80				
Р	4.40	4.80				
R	0.60	0.80				
All Dimensions in mm						

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

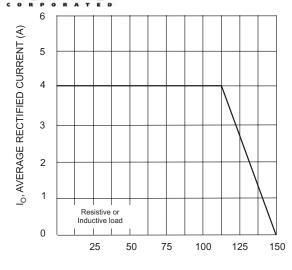
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	KBJ 4005G	KBJ 401G	KBJ 402G	KBJ 404G	KBJ 406G	KBJ 408G	KBJ 410G	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current	@ T _C = 115°C	I _O		•	•	4.0			•	Α
Non-Repetitive Peak Forward Surge Curren half-sine-wave superimposed on rated load	t, 8.3 ms single	I _{FSM}				120				Α
Forward Voltage per element	@ I _F = 2.0A	V _{FM}				1.0				V
Peak Reverse Current at Rated DC Blocking Voltage	@ T _C = 25°C @ T _C = 125°C	I _{RM}				5.0 500				μA
I ² t Rating for Fusing, t <8.3ms (Note 3)		I ² t				60				A ² s
Typical Total Capacitance per Element (Note 1)		C _T	40				pF			
Typical Thermal Resistance (Note 2)		R _{θJC}	5.5				°C/W			
Operating and Storage Temperature Range		T _j , T _{STG}			-(65 to +15	0			°C

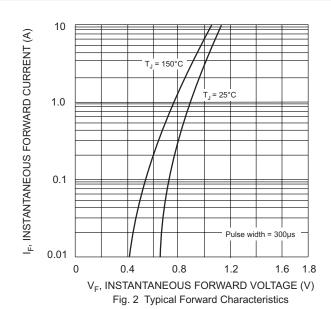
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

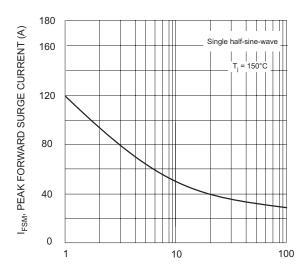
- 2. Thermal resistance from junction to case per element. Unit mounted on 75 x 75 x 1.6mm aluminum plate heat sink.
- 3. Non-repetitive, for t >1ms and <8.3ms.
- 4. RoHs revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.

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T_C, CASE TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve





NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Surge Current

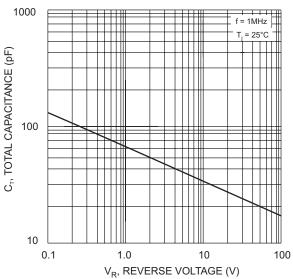
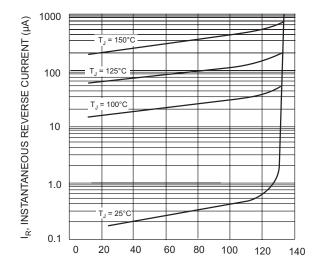


Fig. 4 Typical Total Capacitance, Per Element



PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics



Ordering Information (Note 5)

Device	Packaging	Shipping		
KBJ4005G	KBJ	20/Tube		
KBJ401G	KBJ	20/Tube		
KBJ402G	KBJ	20/Tube		
KBJ404G	KBJ	20/Tube		
KBJ406G	KBJ	20/Tube		
KBJ408G	KBJ	20/Tube		
KBJ410G	KBJ	20/Tube		

Notes: 5. For packaging details, visit our website at http://www.diodes.com/datasheets/ap02008.pdf

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