Zibo Seno Electronic Engineering Co., Ltd.





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
- Plastic Material UL Flammability Classification 94V-0
- Lead Free:For RoHS / Lead Free Version

KBJ4								
Dim	Min	Max						
Α	24.80	25.20						
В	14.70	15.30						
С	4.00 N	ominal						
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								

Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208

Polarity: Molded on Body

Mounting: Through Hole for #6 ScrewMounting Torque: 5.0 in-lbs Maximum

Approx. Weight: 4.6 gramsMarking: Type Number

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 4A	KBJ 4B	KBJ 4D	KBJ 4G	KBJ 4J	KBJ 4K	KBJ 4M	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	>
RMS Reverse Voltage		35	70	140	280	420	560	700	٧
Average Rectified Output Current @ T _C = 115°C	Ιο	4.0							Α
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load (JEDEC method)		120							А
Forward Voltage per element @ I _F = 2.0A		1.0							V
Peak Reverse Current @T _C = 25°C at Rated DC Blocking Voltage @T _C = 125°C		5.0 500							μA
Typical Junction Capacitance per Element (Note 1)		40							pF
Typical Thermal Resistance (Note 2)		5.5							°C/W
Operating and Storage Temperature Range		-65 to +150							°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 300 x 300 x 1.6mm aluminum plate heat sink.

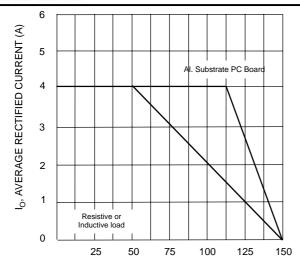
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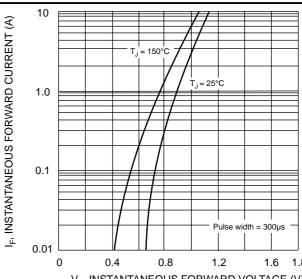
KBJ4A – KBJ4M



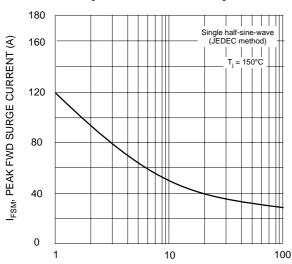




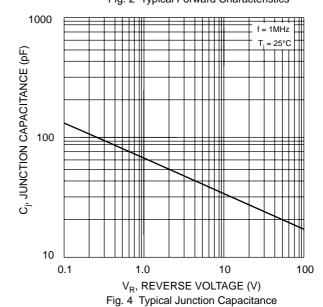
 T_C , CASE TEMPERATURE (°C) Fig. 1 Forward Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics



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



1000 I_R, INSTANTANEOUS REVERSE CURRENT (µA) . = 150°C 100 $T_J = 100$ °C 10 1.0 = 25°C 0.1 0 20 80 100 120 140

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