Zibo Seno Electronic Engineering Co., Ltd.

淄博圣诺

KBJ20A - KBJ20M

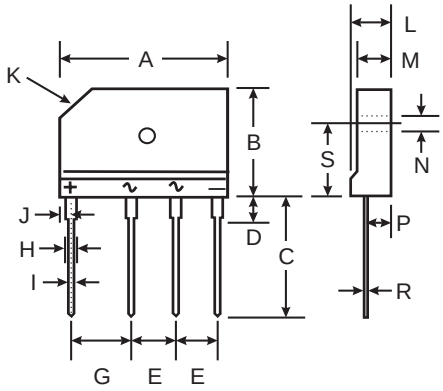
20A GLASS PASSIVATED BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- High Case Dielectric Strength of 1500V_{RMS}
- Low Reverse Leakage Current
- Surge Overload Rating to 350A Peak
- Ideal for Printed Circuit Board Applications
- Plastic Material - UL Flammability Classification 94V-0
- **Lead Free:For RoHS / Lead Free Version**

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208
- Polarity: Molded on Body
- Mounting: Through Hole for #6 Screw
- Mounting Torque: 5.0 in-lbs Maximum
- Weight: 6.6 grams (approx)
- Marking: Type Number



KBJ6		
Dim	**Min**	**Max**
A	29.70	30.30
B	19.70	20.30
C	17.00	18.00
D	3.80	4.20
E	7.30	7.70
G	9.80	10.20
H	2.00	2.40
I	0.90	1.10
J	2.30	2.70
K	3.0 X 45°	
L	4.40	4.80
M	3.40	3.80
N	3.10	3.40
P	2.50	2.90
R	0.60	0.80
S	10.80	11.20
All Dimensions in mm		

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

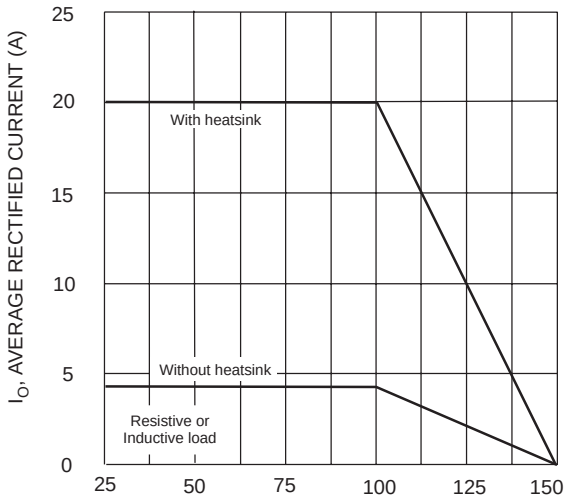
Single phase, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	KBJ 20A	KBJ 20B	KBJ 20D	KBJ 20G	KBJ 20J	KBJ 20K	KBJ 20M	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 Forward Rectified Output Current @ T_C = 110°C	I_O	20							A
Non-Repetitive Peak Forward Surge Current, 8.3 ms single half-sine-wave superimposed on rated load	I_{FSM}	240							A
Forward Voltage per element @ I_F = 10A	V_{FM}	1.05							V
Peak Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_C = 125°C	I_R	10 500							μA
I^2t Rating for Fusing (t < 8.3 ms) (Note 1)	I^2t	240							A^2s
Typical Total Capacitance per Element (Note 2)	C_T	60							pF
Typical Thermal Resistance Junction to Case (Note 3)	$R_{\theta JC}$	0.8							°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150							°C

Notes: 1. Non-repetitive, for t > 1ms and < 8.3 ms.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
3. Unit mounted on 300 x 300 x 1.6mm Cu plate heat sink.
4. RoHS revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see *EU Directive Annex Notes 5 and 7.*

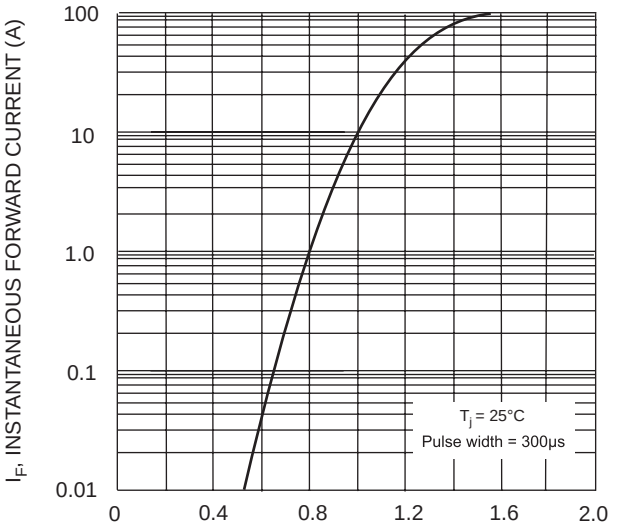
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KBJ20A - KBJ20M



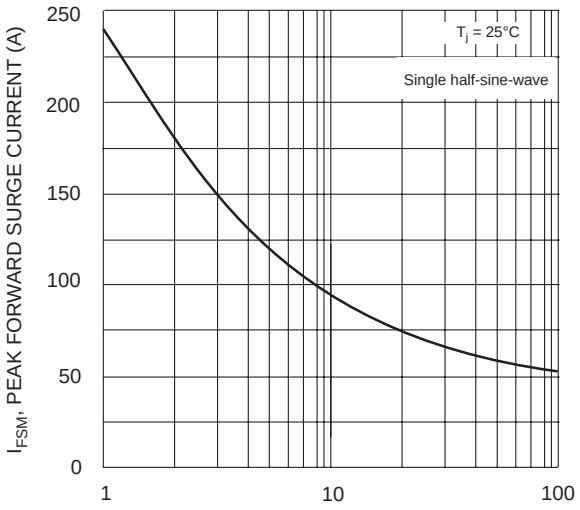
T_C, CASE TEMPERATURE (°C)

Fig. 1 Forward Current Derating Curve



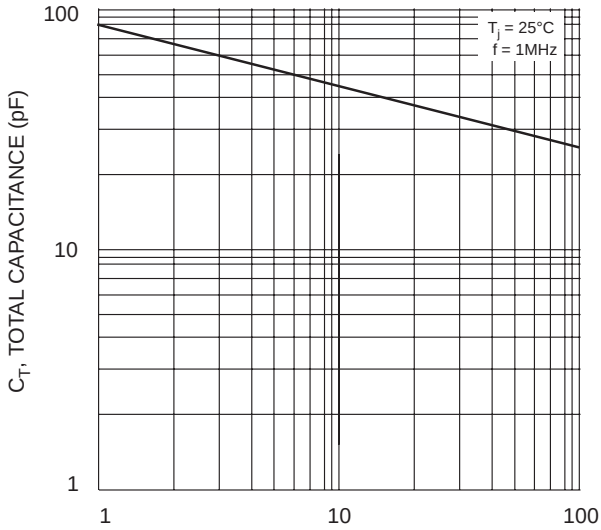
V_F, INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 2 Typical Forward Characteristics (per element)



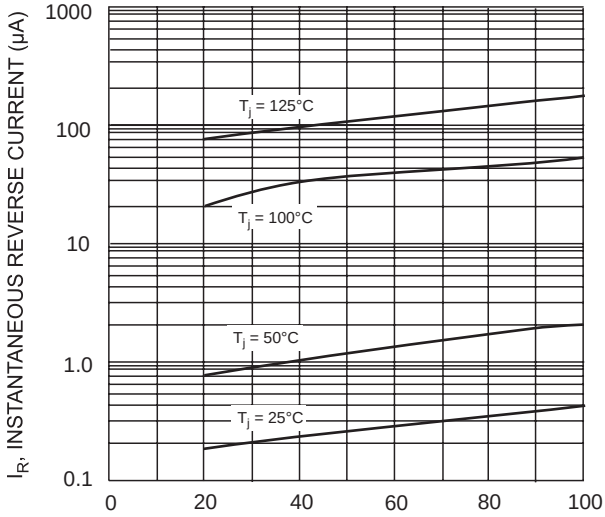
NUMBER OF CYCLES AT 60 Hz

Fig. 3 Maximum Non-Repetitive Surge Current



V_R, REVERSE VOLTAGE (V)

Fig. 4 Typical Total Capacitance, Per Element



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

Fig. 5 Typical Reverse Characteristics

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