

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

20A

HF

Features

• Glass passivated chip junction

• UL recognition file number E526209

• Lead free in compliance with EU RoHS 2.0

• Halogen-free according to IEC 61249 standard

Mechanical Data

• Case: KBJ-2 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 4.1442 grams

Application

• Computing Power / Desktop Power

• Game Console Power

Server Power

• Air Conditioner out door power board

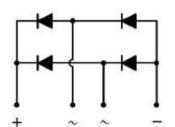
• High Power/High Efficiency Power

Home Appliances Power Board

Key Parameters			
Parameter	Value		
V_{RRM}	1000V		
I _F (AV)	20A		
I _{FSM}	200A		
I _R	5uA		
Package	KBJ-2		

KBJ-2







Maximum Ratings and Thermal Characteristics ($T_A = 25$ °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Current	With heatsink		20	
	Without heatsink	I _{F(AV)}	3.2	A
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		200	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	160	A
Peak Forward Surge Current: 1.0 ms	@ T _A = 25 °C		400	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	320	A
I ² t rating for fusing (t = 8.3ms)	I²t	166	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	65	pF	
	ReJA	8		
Typical Thermal Resistance (Note 1)	ReJL	2	°C/W	
	R ₀ JC	3		
Operating junction and storage tempera	T _J , T _{STG}	-55~150	°C	
Mounting torque @ Recommend torque	Tor	8	Kg.cm	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 10 A, T _J = 25 °C	ı	ı	1.05	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	٨
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

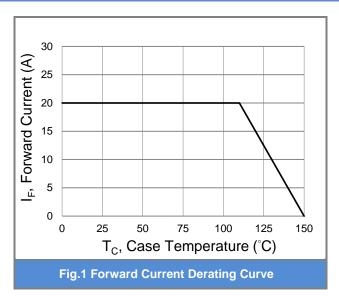
NOTES:

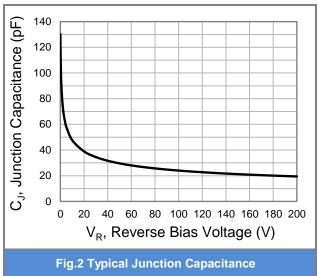
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm Fin type heat sink .

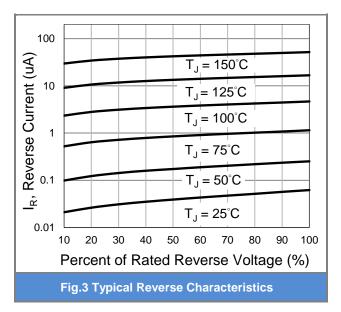
June 21,2023 KBJ2010-REV.01 Page 2

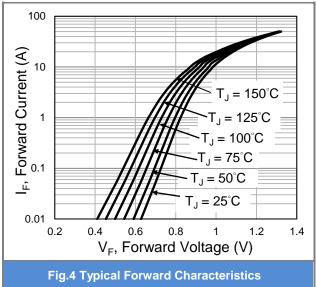


TYPICAL CHARACTERISTIC CURVES







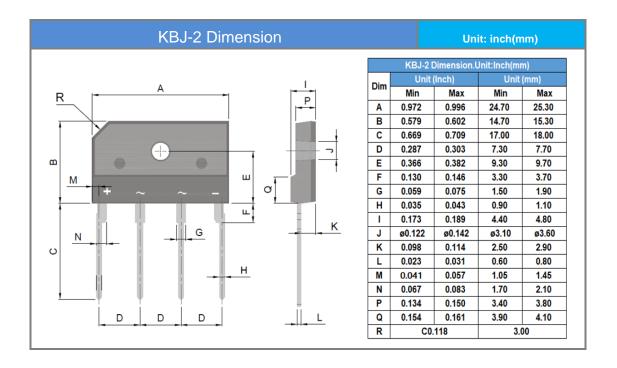




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
KBJ2010	KBJ-2	20 pcs / tube	KBJ2010

Packaging Information



June 21,2023 KBJ2010-REV.01 Page 4



Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are
 responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no
 representation or warranty that such applications will be suitable for the specified use without further testing or
 modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

June 21,2023 KBJ2010-REV.01 Page 5