

## **Glass Passivated Bridge Rectifier**

Voltage

1000 V

Current

15A

### **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

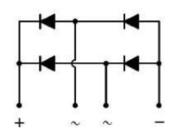
• High Power/High Efficiency Power

• Home Appliances Power Board

Key Parameters			
Parameter	Value		
$V_{RRM}$	1000V		
I <sub>F</sub> (AV)	15A		
I <sub>FSM</sub>	180A		
I <sub>R</sub>	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 <sub>RRM</sub>	1000	V	
Maximum RMS Voltage		V <sub>RMS</sub>	700	V	
Maximum DC Blocking Voltage		V <sub>DC</sub>	1000	V	
Maximum Average Forward Current	With heatsink		15		
	Without heatsink	I <sub>F(AV)</sub>	2.5	A	
Peak Forward Surge Current: 8.3 ms	@ T <sub>A</sub> = 25 °C		180	_	
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	144	A	
Peak Forward Surge Current : 1.0 ms	@ T <sub>A</sub> = 25 °C		330	А	
Single Half Square -Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	280		
I <sup>2</sup> t rating for fusing (t = 8.3ms)	I²t	134.4	A <sup>2</sup> S		
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	Сл	60	pF		
	R <sub>θ</sub> ЈА	12			
Typical Thermal Resistance (Note 1)	RøJL	4	°C/W		
		Rejc	5		
Operating junction and storage tempera	T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C		
Mounting torque @ Recommend torque	Tor	8	Kg.cm		

# **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 7.5 A, T <sub>J</sub> = 25 °C	ı	ı	1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 1000 V, T <sub>J</sub> = 25 °C	-	-	5	٨
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	100	uA

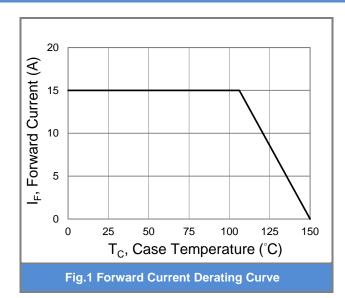
#### NOTES:

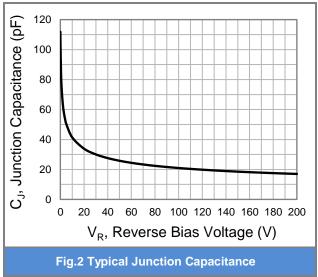
1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink .

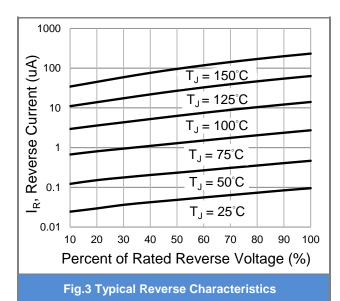
June 21,2023 KBJ1510-REV.01 Page 2

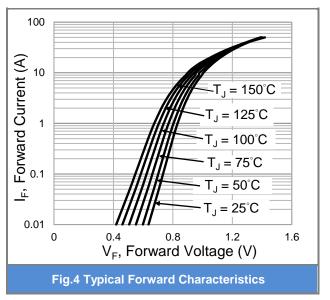


### **TYPICAL CHARACTERISTIC CURVES**







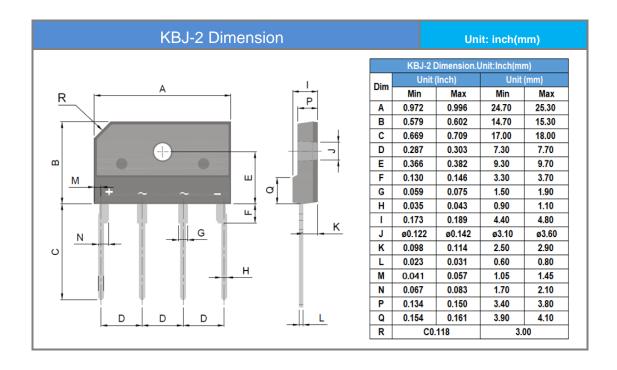




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
KBJ1510	KBJ-2	20 pcs / tube	KBJ1510

## **Packaging Information**



June 21,2023 KBJ1510-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.