

## **Glass Passivated Bridge Rectifier**

Voltage

1000 V

Current

10A

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

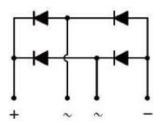
## Application

- 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 <sub>RRM</sub>	1000V		
I <sub>F</sub> (AV)	10A		
I <sub>FSM</sub>	170A		
IR	5uA		
Package	KBJ-2		

<u>KBJ-2</u>







# Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 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		VDC	1000	V
Maximum Average Forward Current	With heatsink		10	
	Without heatsink	IF(AV)	3.1	A
Peak Forward Surge Current : 8.3 ms	@ T <sub>A</sub> = 25 °C		170	_
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	136	A
Peak Forward Surge Current : 1.0 ms	@ T <sub>A</sub> = 25 °C		270	
Single Half Square -Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	230	A
$I^2$ t rating for fusing (t = 8.3ms)	I²t	120	A <sup>2</sup> S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_{R} = 4$	CJ	55	pF	
	Reja	8		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	3	°C/W
		R <sub>ejc</sub>	2	
Operating junction and storage tempera	TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		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	VF	I <sub>F</sub> = 5 A, T <sub>J</sub> = 25 °C	-	-	1.05	V
Reverse Current	IR	$V_R = 1000 V, T_J = 25 \circ C$	-	-	5	•
		V <sub>R</sub> = 1000 V,T <sub>J</sub> = 125 °C	-	-	100	uA

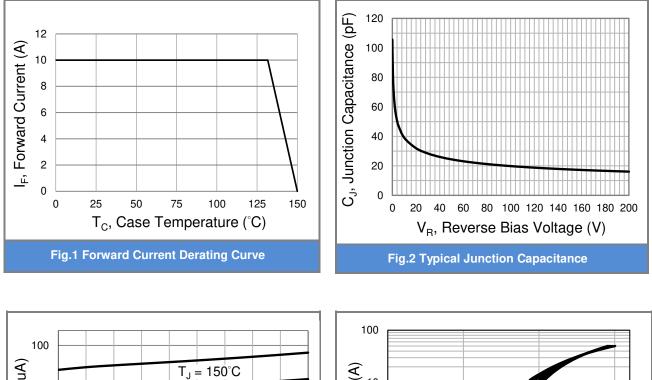
NOTES :

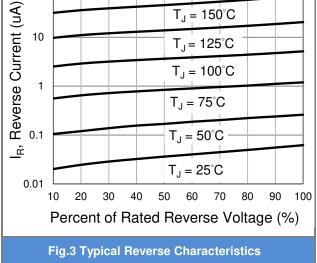
1. Device mounted on 10 cm \* 9.4 cm \* 2.6 cm Fin type heat sink

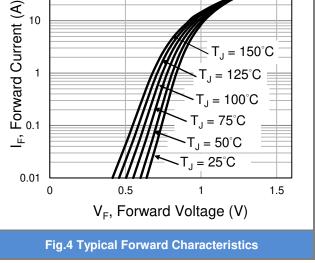


# KBJ1010

#### **TYPICAL CHARACTERISTIC CURVES**





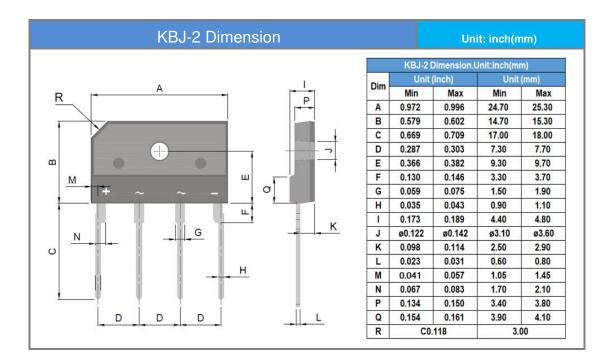




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
KBJ1010	KBJ-2	20 pcs / tube	KBJ1010

## **Packaging Information**





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