

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

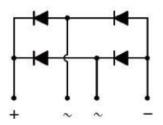
Application

- 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 _{RRM}	1000V		
I⊧(AV)	10A		
I _{FSM}	170A		
I _R	5uA		
Package	KBJ-2		

<u>KBJ-2</u>







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

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		Vrrm	1000	V
Maximum RMS Voltage		V _{RMS}	700	V
Maximum DC Blocking Voltage		V _{DC}	1000	V
Maximum Average Forward Current	With heatsink		10	
-	Without heatsink	IF(AV)	3.1	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		170	
	@ T _A = 125 °C	IFSM	136	A
Peak Forward Surge Current : 1.0 ms Single Half Square -Wave Superimposed On Rated Load	@ T _A = 25 °C		270	
	@ T _A = 125 °C	IFSM	230	A
I ² t rating for fusing (t = 8.3ms)	l ² t	120	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$		Сл	55	pF
	R _{0JA}	8		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	3	°C/W
		R _{θJC}	2	
Operating junction and storage temperature range		TJ, TSTG	-55~150	°C
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm

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

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

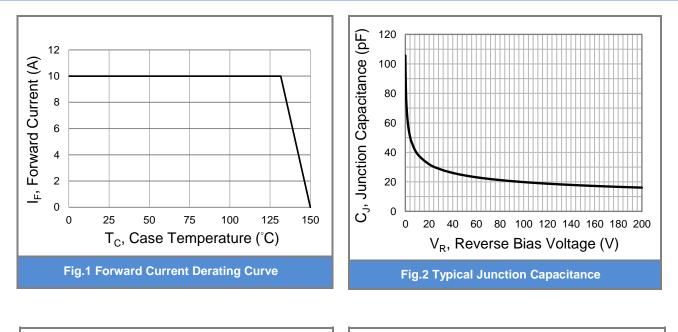
NOTES :

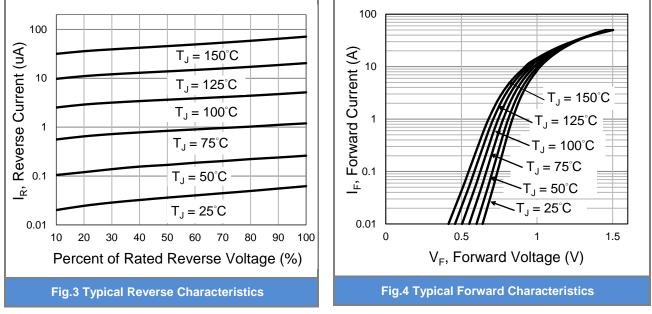
1. Device mounted on 10 cm * 9.4 cm * 2.6 cm. Fin type heat sink



KBJ1010

TYPICAL CHARACTERISTIC CURVES



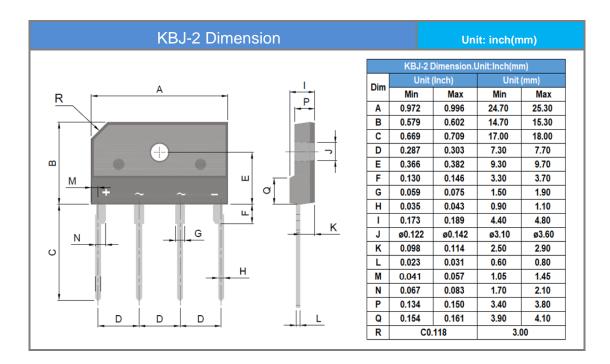




Product and Packing Information

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

Packaging Information





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