

Glass Passivated Low Profile Bridge Rectifier

Current

15A

HF

Voltage

Features

• Glass passivated chip junction

1000 V

- Thin single in-line package
- High surge current capability

Mechanical Data

- Case : KBJB Package
- Molding compound meets UL 94 V-0 flammability Rating, RoHS-compliant, Halogen free
- Terminals : Tin plated leads , Solderable per J-STD-002 and JESD22-B102
- Approx. Weight : 2.5519 grams

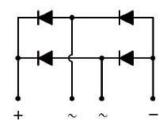
Application

- Slim Adapter Power
- Game Console Power
- TV Power

Key Parameters			
Parameter	Value		
V _{RRM}	1000V		
I _F (AV)	15A		
I _{FSM}	220A		
I _R	5uA		
TJ max.	150°C		
Package	KBJB		

<u>KBJB</u>







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		Vrms	700	V
Maximum DC Blocking Voltage		VDC	1000	V
Maximum Average Forward Current	With heatsink		15	
	Without heatsink	F(AV)	3.2	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		220	
	@ T _A = 125 °C	IFSM	176	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		440	
	@ T _A = 125 °C	IFSM	352	A
I^2 t rating for fusing (t = 8.3ms)		l ² t	200.9	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	V	С	70	pF
		Reja	13	
Typical Thermal Resistance (Note1)	Rejl	5	°C/W	
		R _{ejc}	2	
Operating junction and storage temperature range		TJ, TSTG	-55~150	٥C
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⊧ = 7.5 A, TJ = 25 °C	-	-	1.0	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

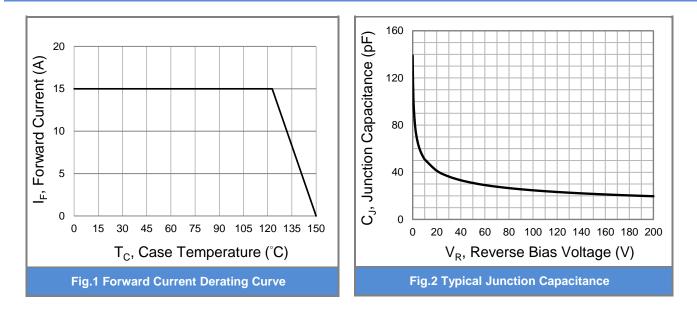
NOTES :

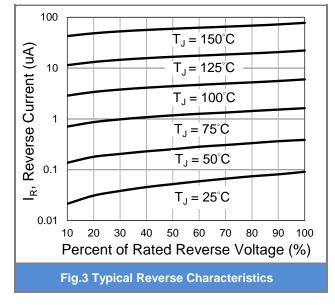
1. Device mounted on 75mm * 45mm * 5.5mm Aluminum Plate Heatsink.

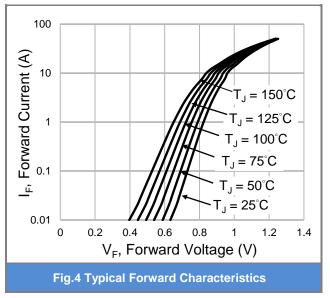




TYPICAL CHARACTERISTIC CURVES





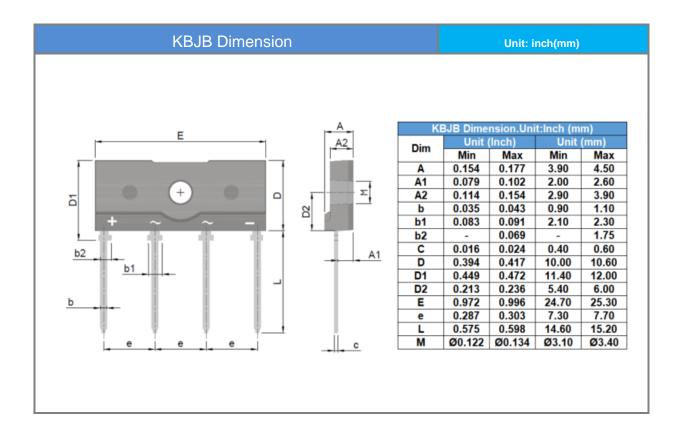




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
KBJB1510	KBJB	20 pcs / tube	KBJB1510

Packaging Information





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