

Glass Passivated Low Profile Bridge Rectifier

Voltage

600 V

Current

10A

HF

Features

- Glass passivated chip junction
- 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

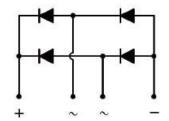
Application

- Slim Adapter Power
- Game Console Power
- TV Power

Key Parameters			
Parameter	Value		
V _{RRM}	600V		
I _F (AV)	10A		
I _{FSM}	220A		
I _R	5uA		
T₃ max.	150°C		
Package	KBJB		

KBJB







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

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	600	V	
Maximum RMS Voltage		V _{RMS}	420	V	
Maximum DC Blocking Voltage		V _{DC}	600	V	
Maximum Average Forward Current	With heatsink		10	_	
	Without heatsink	I _{F(AV)}	3.2	A	
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		220		
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	176	A	
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		440	А	
	@ T _A = 125 °C	I _{FSM}	352		
I ² t rating for fusing (t = 8.3ms)		I²t	200.9	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied V _R = 4 V		Сл	70	pF	
		Reja	13		
Typical Thermal Resistance (Note1)		Rejl	5	°C/W	
		R ₀ JC	2		
Operating junction and storage temperature range		T _J , T _{STG}	-55~150	°C	
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm	

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

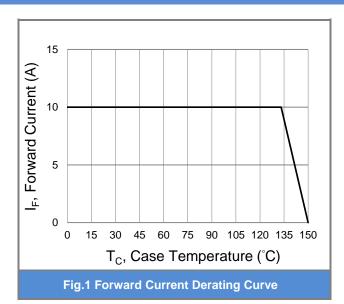
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	I _F = 5 A, T _J = 25 °C	-	ı	1.0	V	
Daviera Comment		V _R = 600 V, T _J = 25 °C	-	ı	5		
Reverse Current	IR	V _R = 600 V,T _J = 125 °C	-		100	uA	

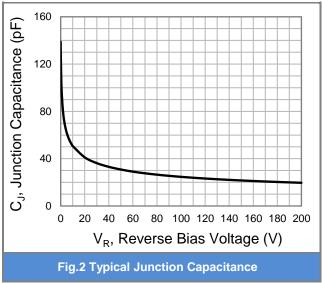
NOTES:

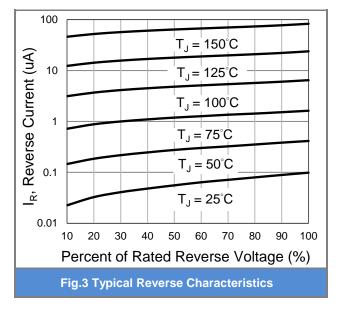
1. Device mounted on 75mm * 45mm * 5.5mm Aluminum Plate Heatsink.

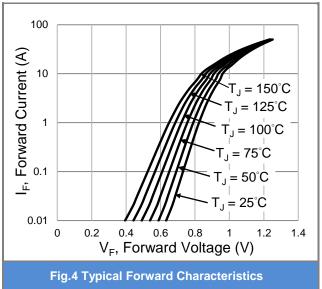


TYPICAL CHARACTERISTIC CURVES







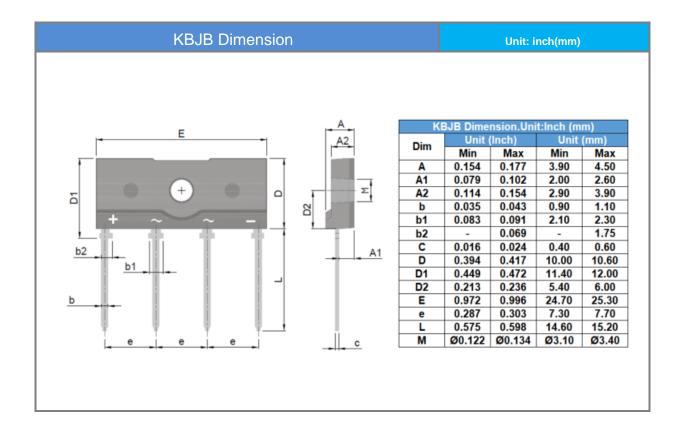




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
KBJB1006	KBJB	20 pcs / tube	KBJB1006

Packaging Information





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