

Glass Passivated Bridge Rectifier

Voltage

1000 V

Current

25A

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

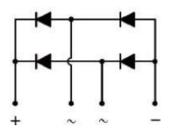
Application

- 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 _F (AV)	25A		
I _{FSM}	240A		
I _R	5uA		
Package	KBJ-2		









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

PARAMETER	र	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage		Vrrm	1000	V
Maximum RMS Voltage	V _{RMS}	700	V	
Maximum DC Blocking Voltage		VDC	1000	V
Maximum Average Forward Current	With heatsink		25	
	Without heatsink	IF(AV)	2.6	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		240	
	@ T _A = 125 °C	IFSM	192	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 25 °C		480	
	@ T _A = 125 °C	IFSM	384	A
I^2 t rating for fusing (t = 8.3ms)		l ² t	239	A ² S
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	4 V	CJ	90	pF
	Reja	10		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	3	°C/W
		R _{θJC}	4	
Operating junction and storage temper	TJ, TSTG	-55~150	°C	
Mounting torque @ Recommend torque	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⊧ = 12.5 A, TJ = 25 °C	-	-	1.05	V
Reverse Current	I _R	V _R = 1000 V, T _J = 25 °C	-	-	5	•
		V _R = 1000 V,T _J = 125 °C	-	-	100	uA

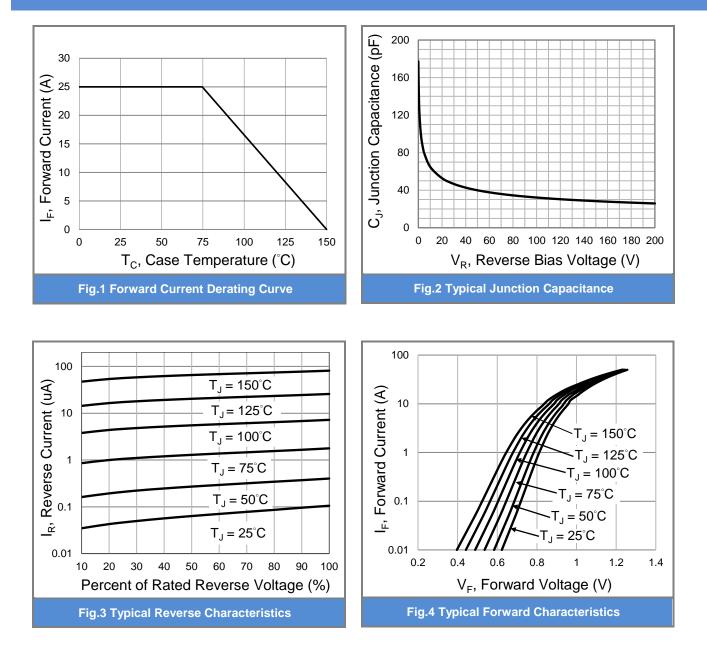
NOTES :

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



KBJ2510

TYPICAL CHARACTERISTIC CURVES

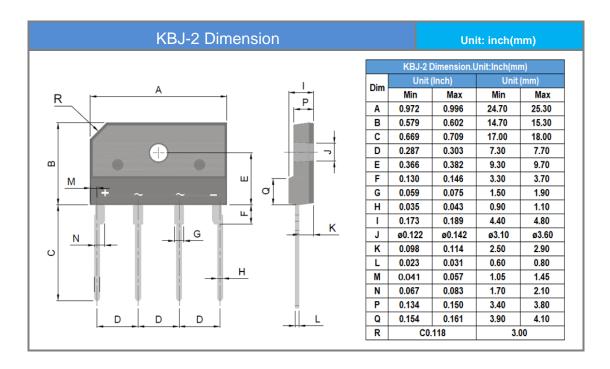




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
KBJ2510	KBJ-2	20 pcs / tube	KBJ2510

Packaging Information





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