

Ultra Low VF Bridge Rectifier with Super Low Leakage Current

Voltage

600 V

Current

15A

HF

GBJ-2

Features

• Oxide planar chip junction

- Low forward voltage drop (VF@0.75V)
- Low leakage current (IR@20uA)
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard



• Case: GBJ-2 Package

• Terminals : Solderable per MIL-STD-750, Method 2026

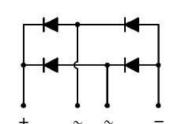
• Approx. Weight: 6.6972 grams

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}	600V			
I _F (AV)	15A			
I _{FSM}	220A			
V _F @125°C	0.75V			
I _R	1uA			
Package	GBJ-2			







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		15	А		
	Without heatsink	I _{F(AV)}	4.2			
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		220	А		
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	176			
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	IFSM	352			
I ² t rating for fusing (t = 8.3ms)	I²t	200	A ² S			
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	130	pF			
	Reja	8				
Typical Thermal Resistance (Note 1) (with heatsink)		ReJL	3	°C/W		
		R ₀ JC	1.2			
Operating junction and storage tempera	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)

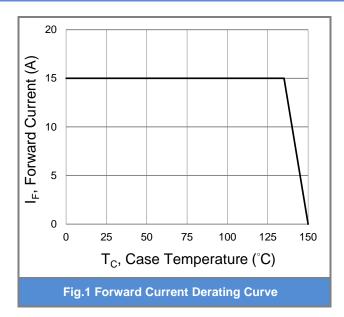
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I _F = 7.5 A, T _J = 25 °C	-	0.88	0.92	.,,	
		I _F = 7.5 A, T _J = 125 °C	-	0.75	-	V	
Davis Comment		V _R = 600 V, T _J = 25 °C	-	0.2	1		
Reverse Current	IR	V _R = 600 V,T _J = 125 °C	-	20	-	uA	

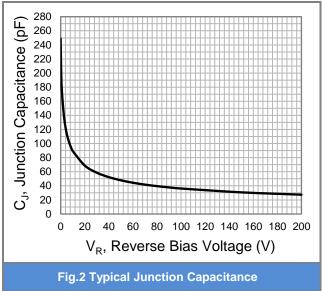
NOTES:

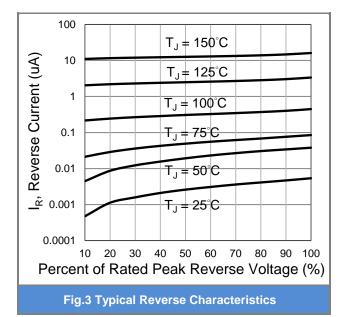
1. Device mounted on 200 mm * 200 mm * 10 mm Cu Plate heat sink

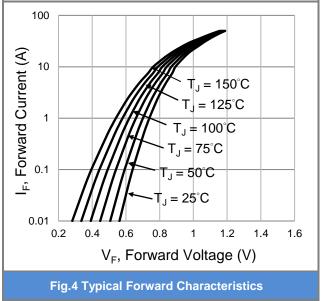


TYPICAL CHARACTERISTIC CURVES







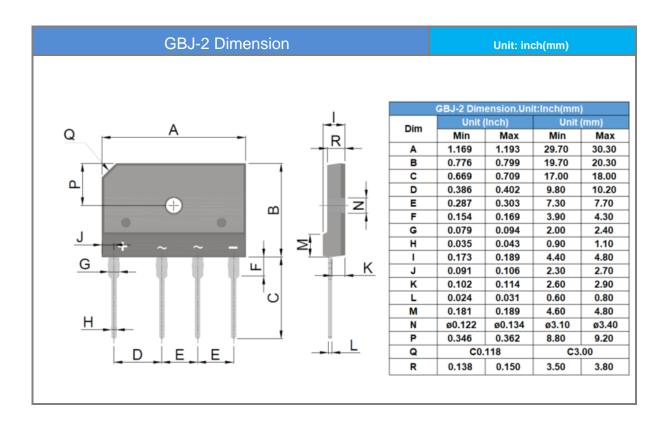




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBJ1506ULV	GBJ-2	15 pcs / tube	GBJ1506ULV

Packaging Information





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