

Ultra Low VF Bridge Rectifier with Super Low Leakage Current

Voltage

600 V

Current

15 A

HF

GBU-2

Features

- Oxide planar chip junction
- Low forward voltage drop (VF@0.75V)
- Low leakage current (IR@20uA)
- UL recognition file number E526209
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard



• Case: GBU-2 Package

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

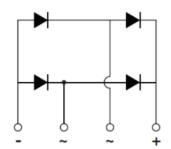
• Approx. Weight: 3.8348 grams

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	GBU-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		
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	I _{FSM}	176		
Peak Forward Surge Current : 1.0 ms	@ T _A = 25 °C		440	А	
Single Half Sine-Wave Superimposed On Rated Load	@ 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 $V_R = 4$	C¹	130	pF		
	Reja	8	°C/W		
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl			3
		R _{θJC}			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)

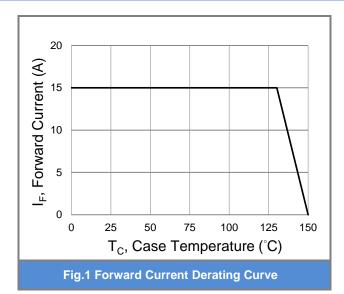
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I _F = 7.5 A, T _J = 25 °C	-	0.88	0.92	
		I _F = 7.5 A, T _J = 125 °C	-	0.75	-	V
Davida Comment		V _R = 600 V, T _J = 25 °C	-	0.2	1	^
Reverse Current	IR IR	V _R = 600 V,T _J = 125 °C	-	20	-	uA

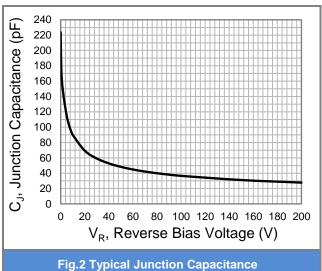
NOTES:

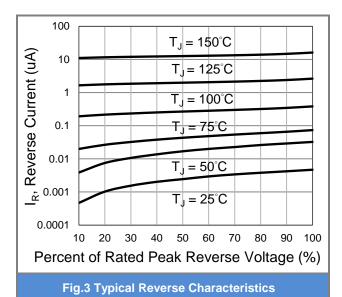
1. Device mounted on 200 mm * 200 mm * 10 mm Cu Plate heat sink.

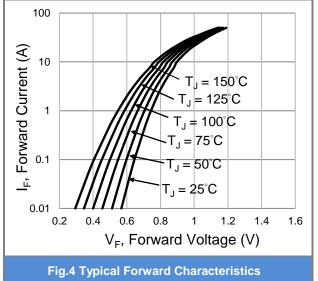


TYPICAL CHARACTERISTIC CURVES







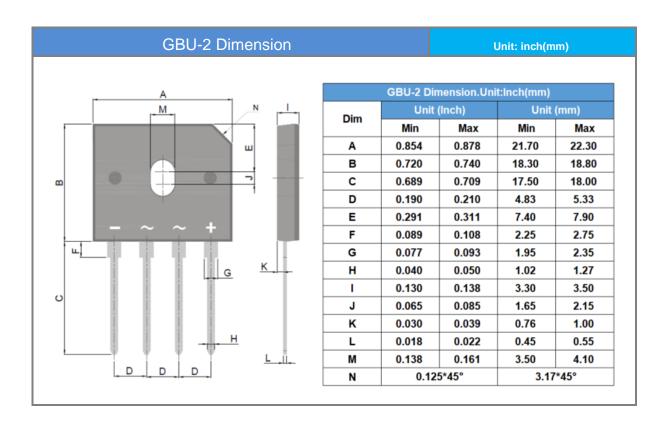




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBU1506ULV	GBU-2	20 pcs / tube	GBU1506ULV

Packaging Information



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