

# Ultra Low VF Bridge Rectifier with Super Low Leakage Current

Voltage

600 V

Current

25A

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

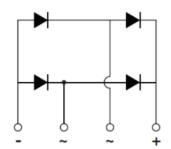
• Approx. Weight: 3.8348 grams

### **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 <sub>F</sub> (AV)	25A		
I <sub>FSM</sub>	350A		
V <sub>F</sub> @125°C	0.75V		
I <sub>R</sub>	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 <sub>RRM</sub>	600	V		
Maximum RMS Voltage		V <sub>RMS</sub>	420	V		
Maximum DC Blocking Voltage		V <sub>DC</sub>	600	V		
Maximum Average Forward Current	With heatsink		25	А		
	Without heatsink	I <sub>F(AV)</sub>	3.8			
Peak Forward Surge Current: 8.3 ms	@ T <sub>A</sub> = 25 °C		350	Α		
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	280			
Peak Forward Surge Current: 1.0 ms	@ T <sub>A</sub> = 25 °C		600	А		
Single Half Sine-Wave Superimposed On Rated Load	@ T <sub>A</sub> = 125 °C	IFSM	500			
I <sup>2</sup> t rating for fusing (t = 8.3ms)	I²t	508	A <sup>2</sup> S			
Typical Junction Capacitance Measured at 1 MHZ And Applied V <sub>R</sub> = 4	Сл	190	pF			
	R <sub>Ө</sub> ЈА	6				
Typical Thermal Resistance (Note 1) (with heatsink)		Rejl	3	°C/W		
		ReJC	1.2			
Operating junction and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55~150	°C		
Mounting torque @ Recommend torque:5Kg.cm		Tor	8	Kg.cm		

## **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

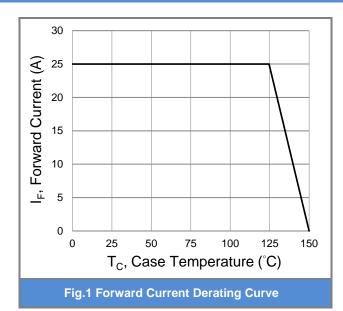
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I <sub>F</sub> = 12.5 A, T <sub>J</sub> = 25 °C	-	0.88	0.92	V	
		I <sub>F</sub> = 12.5 A, T <sub>J</sub> = 125 °C	-	0.75	-		
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 600 V, T <sub>J</sub> = 25 °C	-	0.2	1	^	
		V <sub>R</sub> = 600 V,T <sub>J</sub> = 125 °C	-	20	-	uA	

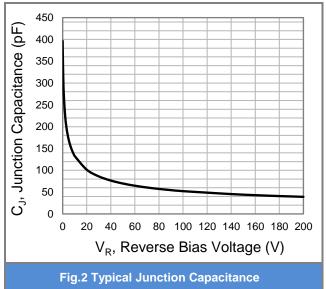
#### NOTES:

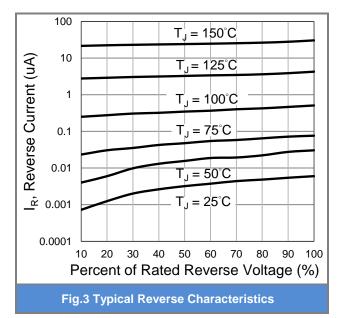
1. Device mounted on 200 mm  $^{\star}$  200 mm  $^{\star}$  20 mm Cu Plate heat sink .

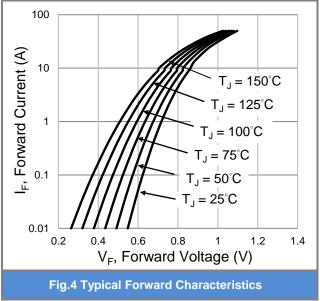


#### **TYPICAL CHARACTERISTIC CURVES**







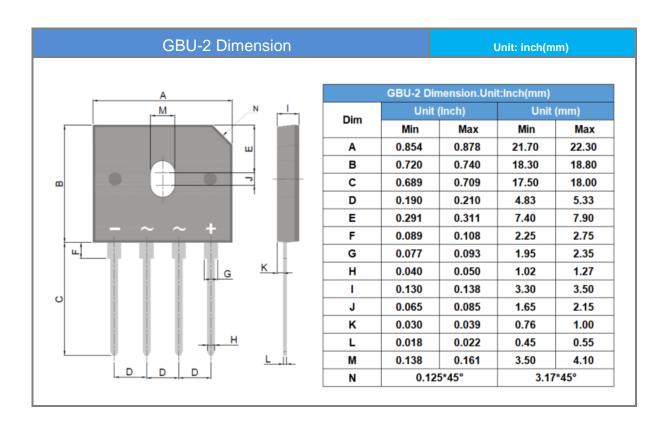




### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
GBU2506ULV	GBU-2	20 pcs / tube	GBU2506ULV

### **Packaging Information**





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