

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@0.74V)
- Low leakage current (IR@20uA)
- Lead free in compliance with EU RoHS 2.0
- Halogen-free according to IEC 61249 standard

Mechanical Data

• Case: GBU-2 Package

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

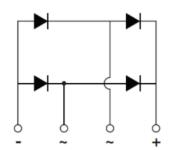
• Approx. Weight: 3.8348 grams

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)	25A		
I _{FSM}	380A		
V _F @125°C	0.74V		
I _R	1uA		
T₃ max.	175°C		
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		25	
	Without heatsink	I _{F(AV)}	5.2	A
Peak Forward Surge Current: 8.3 ms	@ T _A = 25 °C		380	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	I _{FSM}	304	_ A
Peak Forward Surge Current: 1.0 ms	@ T _A = 25 °C		760	
Single Half Sine-Wave Superimposed On Rated Load	@ T _A = 125 °C	IFSM	608	A
I ² t rating for fusing (t = 8.3ms)	I²t	599	A ² S	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4$	CJ	300	pF	
	RθJA	6		
Typical Thermal Resistance (Note 1) (with heatsink)		ReJL	3	°C/W
	R ₀ JC	1		
Operating junction and storage tempera	T _J , T _{STG}	-55~175	°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 _F = 12.5 A, T _J = 25 °C	-	0.85	0.92	
		I _F = 12.5 A, T _J = 125 °C	-	0.74	-	V
D		V _R = 600 V, T _J = 25 °C	-	0.2	1	
Reverse Current	IR	V _R = 600 V,T _J = 125 °C	-	20	-	uA

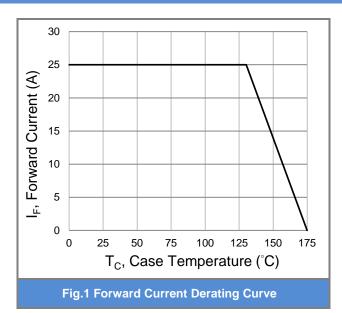
NOTES:

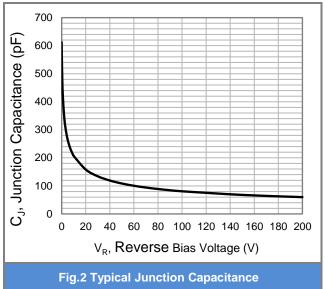
1. Device mounted on 100 mm * 94 mm * 26 mm Fin type heat sink .

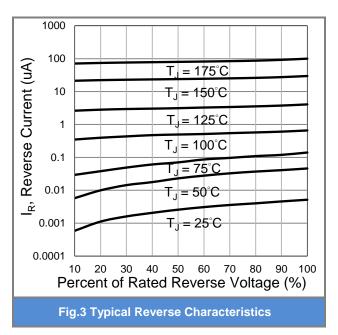


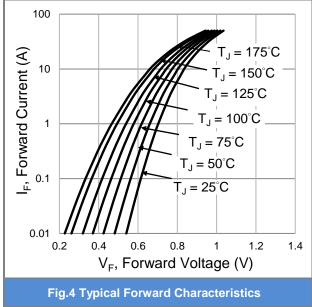


TYPICAL CHARACTERISTIC CURVES







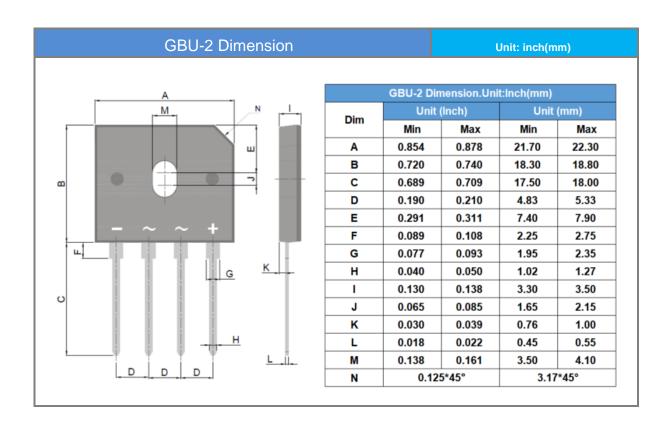




Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GBU2506HULV	GBU-2	20 pcs / tube	GBU2506HULV

Packaging Information







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