Ultra-Low V_F Bridges

T_J 175°C Bridges for Superior Efficiency and Reliability



PANJIT's latest Ultra-Low V_F Bridge Rectifier Series is designed using advanced planar EPI chip junction technology and includes polyimide protection layers for enhanced reliability. With a maximum junction temperature (T_J) of 175°C and a maximum reverse voltage (V_B) rating of 800 V, this series is set to redefine power efficiency and dependability across a wide range of applications—including server power, AI power, telecom power, gaming power, 80+ platinum/titanium PC power supplies, and other high-efficiency power systems.

Features

Low Forward Voltage & Leakage Current

- Ultra-low forward voltage of 0.66 V@175°C*
- Minimal actual leakage current of 20 uA at 125°C*
- Reduced energy waste and optimized power utilization
- Superior performance and stability with efficient power transmission

Setting New Standards

- Improved heat dissipation capabilities
- Lowest forward voltage in the industry (V_F = 0.66 V)*
- Maximum operating junction temperature of 175°C*
- Highest forward current rating in the industry (I_F = 4 A to 35 A)*
- Full coverage with SMD and through-hole packages

Environmentally Conscious and Compliant

- Minimized ecological footprint
- Environmentally conscious engineering
- Fully compliant with EU RoHS 2.0 standards
- Halogen-free according to IEC 61249 standard

*For detailed specifications of each product, please refer to the datasheet

Target Applications

Power Systems



- AI
- Server
- Telecom
- Redundant
- PC/NB Gaming
- 55”+ TV
- PD >100W
- 80+ Platinum/Titanium PC

Products

Ultra-Low V_F Series

Package	V_B	I_F	I_{FSM} @25°C	V_F Typ. @175°C	T_J Max.	Part Numbers
	V	A	A	V	°C	
GBU-2						
	800	15	220	0.72	175	GBU1508HULV
		25	350			GBU2508HULV
		35	400			GBU3508HULV
GBJ-2						
	800	15	220	0.72	175	GBJ1508HULV
		25	350			GBJ2508HULV
		35	400			GBJ3508HULV
M4						
	800	4	135	0.72	175	PMS408HULV
M8						
	800	8	190	0.66	175	PM808HULV
DXK						
	800	6	135	0.72	175	DXK608HULV
KBJ-2						
	800	15	220	0.72	175	KBJ1508HULV
		25	350			KBJ2508HULV

PANJIT International Inc. **Headquarters** No.24, Gangshan N. Rd., Gangshan Dist., Kaohsiung City 82063, Taiwan
TEL +886-7-621-3121 **FAX** +886-7-621-3129 **MAIL** sales@panjit.com.tw