

# Ultra-Low $V_F$ Bridges

High-Efficiency Power Solutions



PANJIT's latest Ultra-Low  $V_F$  Bridge Rectifier Series is engineered with planar EPI chip junction technology and featuring PI protection layers. The series is poised to redefine the standards of power efficiency and reliability across various applications, including server power, AI power, telecom power, gaming power, and 80+ platinum/titanium PC power, among other high-efficiency power applications.

## ► Features

### Low Forward Voltage & Leakage Current

- Ultra-low forward voltage of 0.74V@125°C\*
- Minimal actual leakage current of 20uA 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 ( $V_F = 0.74V$ )\*
- Maximum operating junction temperature of 175 °C\*
- Highest forward current rating in the industry ( $I_F = 35A$ )\*



### 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

Function	V <sub>B</sub>	I <sub>F</sub>	I <sub>FSM</sub> @25°C	V <sub>F</sub> Typ. @125°C	T <sub>J</sub> Max.	
	V	A	A	V	°C	GBU-2
Ultra-Low V <sub>F</sub> Series	600	15	220	0.75	150	GBU1506ULV
		25	350			GBU2506ULV
	600	25	380	0.74	175	GBU2506HULV*1
Low V <sub>F</sub> Series	800	15	240	0.8	150	GBU1508LL
		25	400			GBU2508LL

Function	V <sub>B</sub>	I <sub>F</sub>	I <sub>FSM</sub> @25°C	V <sub>F</sub> Typ. @125°C	T <sub>J</sub> Max.	
	V	A	A	V	°C	GBJ-2
Ultra-Low V <sub>F</sub> Series	600	15	220	0.75	150	GBJ1506ULV
		25	350	0.76		GBJ2506ULV
	600	35	400	0.75	150	GBJ3506ULV*1
Low V <sub>F</sub> Series	800	25	500	0.82	150	GBJ2508LV
		35	530	0.8		GBJ3508LL*2

Function	V <sub>B</sub>	I <sub>F</sub>	I <sub>FSM</sub> @25°C	V <sub>F</sub> Typ. @125°C	T <sub>J</sub> Max.	
	V	A	A	V	°C	M4
Low V <sub>F</sub> Series	800	3	110	0.76	150	PMS308LL
		4	120			PMS408LL

Function	V <sub>B</sub>	I <sub>F</sub>	I <sub>FSM</sub> @25°C	V <sub>F</sub> Typ. @125°C	T <sub>J</sub> Max.	
	V	A	A	V	°C	M8
Low V <sub>F</sub> Series	800	8	170	0.78	150	PM808LL*2
		10	190			PM1008LL*2

\*1 There are currently only one or no competitive products in the industry that match the specifications. \*2 Under Development