

# 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	
<b>GBU-2</b>						
	800	15	220	0.72	175	GBU1508HULV
		25	350			GBU2508HULV
		35	400			GBU3508HULV
<b>GBJ-2</b>						
	800	15	220	0.72	175	GBJ1508HULV
		25	350			GBJ2508HULV
		35	400			GBJ3508HULV
<b>M4</b>						
	800	4	135	0.66	175	PMS408HULV
<b>M8</b>						
	800	8	190	0.72	175	PM808HULV*
<b>DXK</b>						
	800	6	150	0.72	175	DXK608HULV*
<b>KBJ-2</b>						
	800	15	220	0.72	175	KBJ1508HULV*
		25	350			KBJ2508HULV*

\* Under Development