

High-Voltage PB-A Bridge Rectifiers: 1000V/1600V, 25A/35A

HIGH-VOLTAGE BRIDGE RECTIFIERS



Features

- 25 A / 35 A ratings (PBA2510, PBA3516)
- 1000 V / 1600 V options
- 4 mm creepage PB-A package
- Glass-passivated, low leakage
- High thermal conductivity
- Strong surge capability
- Low forward voltage drop
- Low thermal resistance



Benefits

Higher efficiency: Lower V_f cuts $I \times V$ losses; low leakage trims standby draw; less heat enables smaller heatsinks and boosts overall SMPS/UPS efficiency.

Greater reliability: >4 mm creepage resists tracking; glass passivation stabilizes reverse behavior; superior thermal path lowers T_j ; robust surge capacity survives inrush and AC transients.

Applications



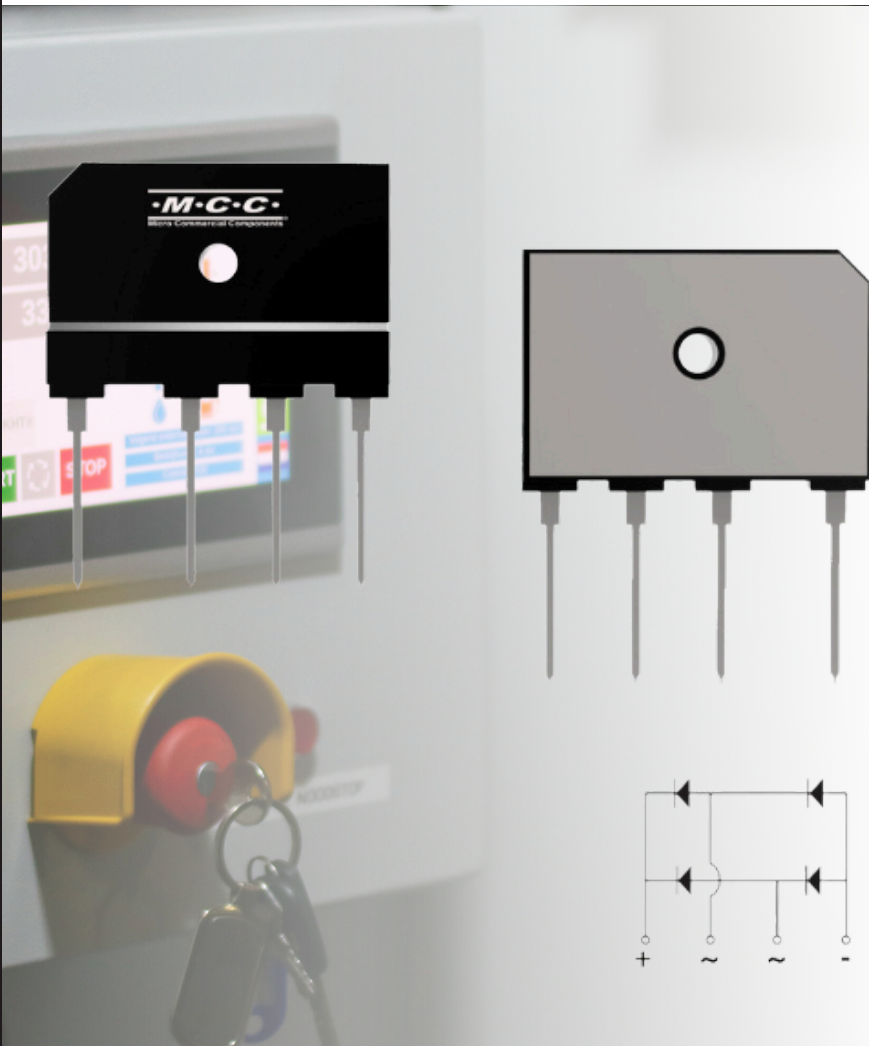
Motor drives
front-end
rectification



EV charging
station

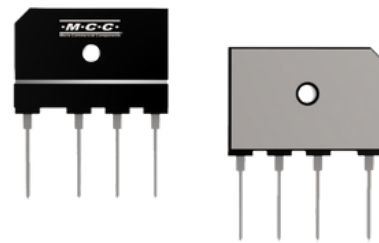


Audio
amplifiers



PB-A Series:
>4 mm Creepage,
Glass-Passivated,
Surge-Ready

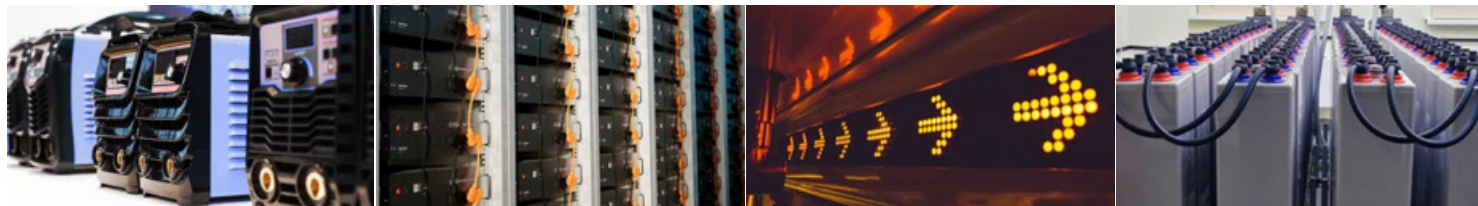
Cooler, Safer, Stronger: 25/35 A, 1000/1600 V Bridge Solutions



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Drain-Source Voltage VDS	Pulsed Drain Current	Drain-Source On-Resistance RDS(on) Max @10V	Mounting Type	Datasheet
PBA2510	Bridge Rectifiers	PB-A	1-Phase Bridge	25	1000	Through Hole	Info
PBA3516	Bridge Rectifiers	PB-A	1-Phase Bridge	35	1600	Through Hole	Info

Applications



Industrial and Manufacturing

- AC to DC converters for factory automation and control panels
- UPS systems for production lines and CNC machinery
- Battery chargers for AGVs and forklifts
- Welding machines and industrial power supplies
- Motor drives front-end rectification

Energy and Infrastructure

- Energy storage systems (ESS) front-end rectifiers
- Inverters for microgrids and power conditioning
- UPS for data centers and telecom
- EV charging station AC front ends
- Emergency lighting and building backup power supplies

Commercial and Pro AV

- SMPS for LED drivers and large signage
- Audio amplifiers and broadcast equipment power supplies
- HVAC controllers and building automation

Transportation

- Battery chargers and shore power converters
- UPS for navigation and communication
- Onboard AC/DC converters for rail and heavy vehicles

CONTACT MCC TO REQUEST A SAMPLE

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