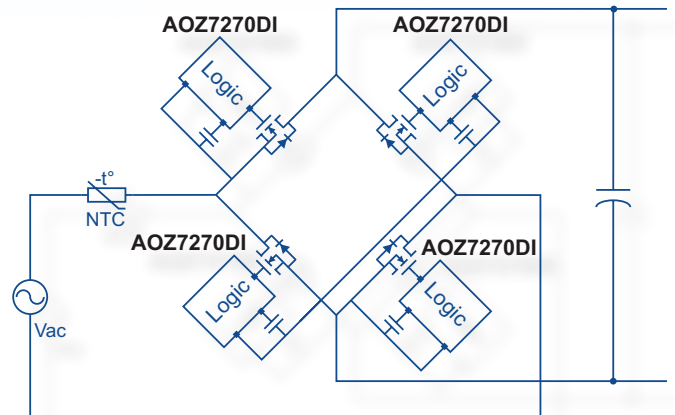
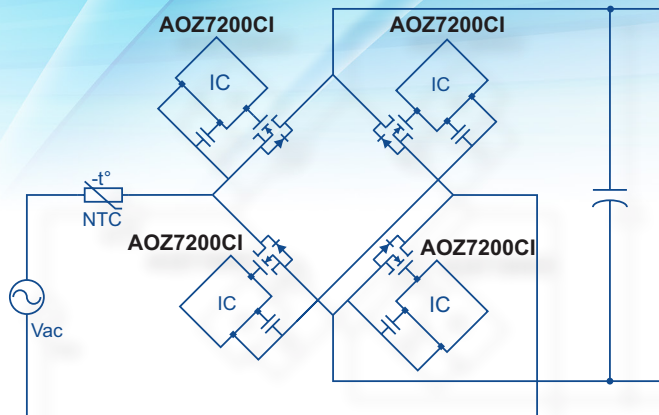


AlphaZBL™ AC-DC Active Bridge Rectifier

- Complete AC-DC power supplies for high efficiency requirements: adaptors, PC, AIO, servers, telecom
- Replaces traditional bridge rectifiers to enhance efficiency and reduce power consumption
- Self-powered V_{CC} in AC system with ultra-low quiescent current
- Integrated 190m Ω , 600V N-channel MOSFET (AOZ7270DI)
- A low reverse threshold of 1mV for improved efficiency
- Low quiescent current 5 μ A



APPLICATIONS



Part Number	Package	MOSFET BVD _{SS} (V)	R _{DS(ON)} (mΩ)	V _{CC} (V)	ESD Rating (kV)	Operating Temp. (°C)
AOZ7200CI	SOT23-5	N/A	N/A	12.9 - 15.2	2	-40 to 125
AOZ7270DI	DFN5x7	600	190	12.9 - 15.2	2	-40 to 125

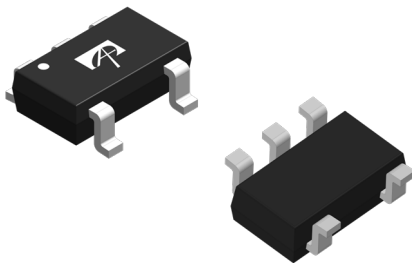
FEATURES AND ADVANTAGES

AOS Active Bridge Rectifier AlphaZBL™

Standalone Driver

> AOZ7200CI

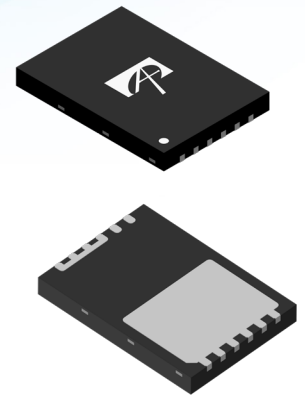
- Drives all external N-MOSFETs directly
- Replaces a power diode in HV bridge rectifier
- Self-powered in AC system
- Low reverse threshold 1mV
- Low quiescent current 5μA
- Very low external part count
- Avoid Hi/Low side MOSFET short-through prevention
- V_{CC} UVLO for High/Low-side controllers
- SOT23 package



Integrated Solution

> AOZ7270DI

- Replaces a power diode in HV bridge rectifier
- Self-powered in AC system
- Internal 0.19Ω 600V N-channel MOSFET
- Low reverse threshold 1mV
- Low quiescent current 5μA
- Thermally enhanced
- Very low external part count
- Avoid Hi/Low side MOSFET short-through prevention
- V_{CC} UVLO for High/Low-side converters
- DFN5x7 package



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