Featured Products











Achieves dramatic miniaturization, reliability, and energy savings in 400VAC industrial equipment

The Industry's First AC/DC Converter ICs with Built-in 1,700V SiC MOSFET

BM2SCQ12xT-LBZ

*ROHM September 2019 study

Greater miniaturization

Achieves breakthrough miniaturization by replacing 12 components and heat sink with a single package

Higher reliability

Reduces design/mounting man-hours and risk while multiple built-in protection functions provide superior reliability

Improved efficiency with lower loss

Maximizes SiC MOSFET performance to achieve dramatically improved power savings

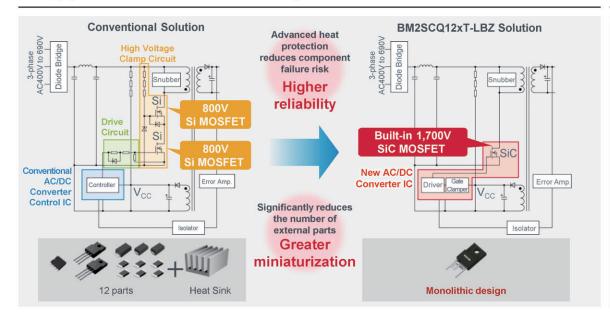


Evaluation Board Available (For Purchase)

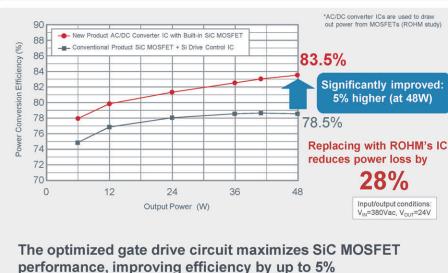


BM2SCQ123T-EVK-001

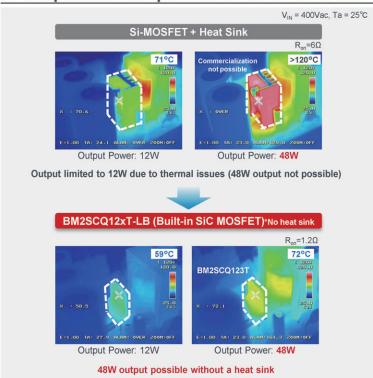
Application Circuit and Adoption Results



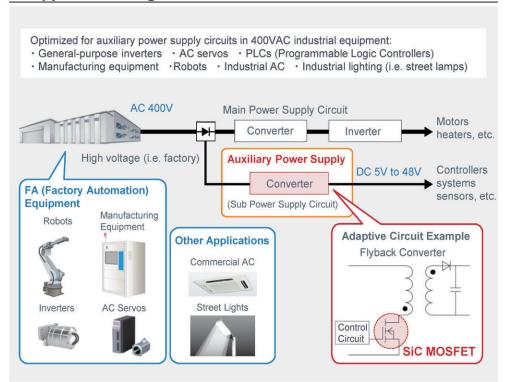
AC Converter Efficiency Comparison: Si vs SiC



■ Temperature Comparison: Si-MOSFET vs SiC



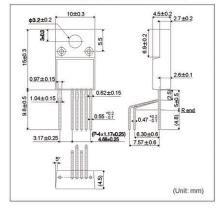
Application Diagram



AC/DC Converter IC with Built-in SiC MOSFET Lineup

Part No.	Supply Voltage	Normal Operating Current Ty p (µA)	Burst Operating Current Ty p (µA)	Max Operating Frequency Typ (kHz)	FB OLP	VCC OVP	Operating Temp.	Package
New BM2SCQ121T-LBZ	VCC: 15.0 to 27.5V DRAIN: 1,700V(Max)	2,000	500	120	Auto Restart	Latch	40 to +105	TO220-6M
New BM2SCQ122T-LBZ					Latch	Latch		
New BM2SCQ123T-LBZ*					Auto Restart	Auto Restart		
New BM2SCQ124T-LBZ					Latch	Auto Restart		

External Dimensions



*An evaluation board compatible with universal AC input is available. For more information, please visit ROHM's website.



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