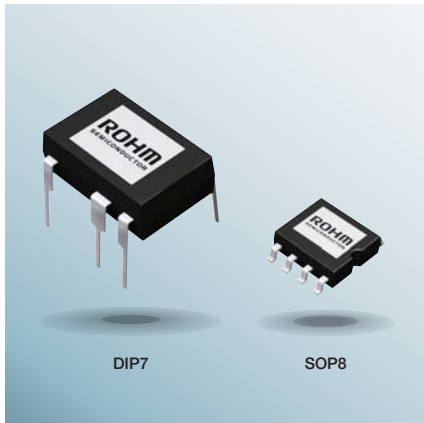


AC/DC Converter ICs

BM2Pxxx/BM2PxxxF Series



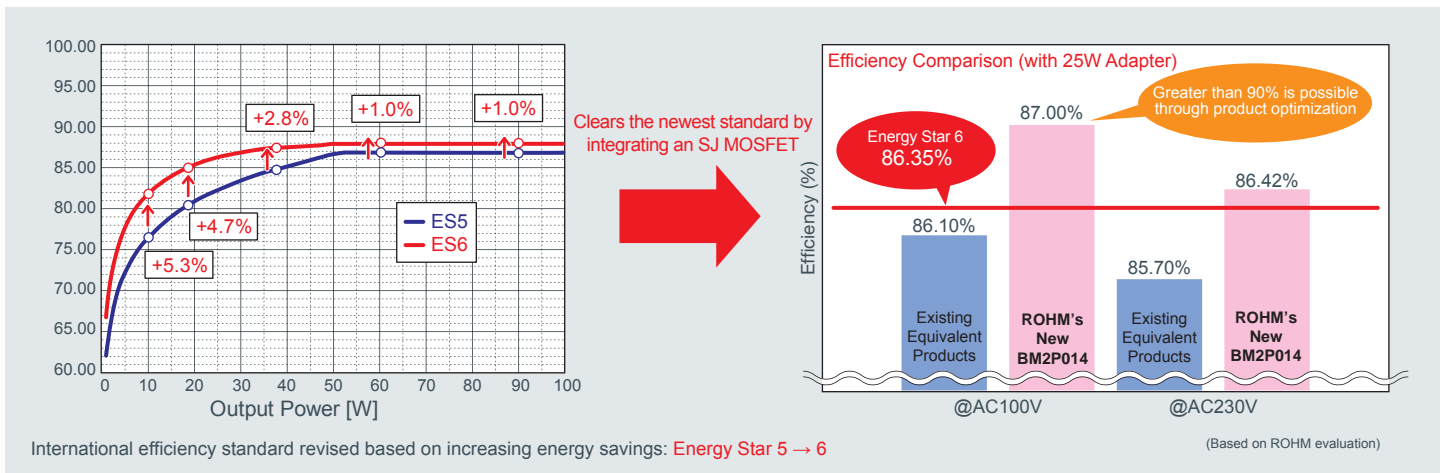
Integrated power MOSFET provides industry-leading efficiency

Product Outline

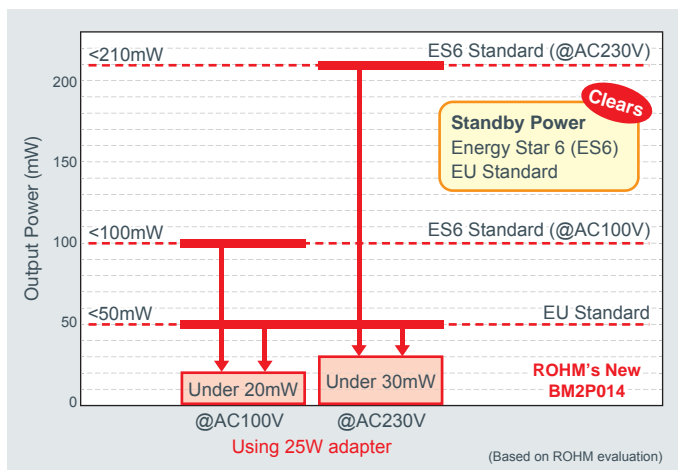
The BM2P Series was designed for use in AC adapters, home appliances, office equipment, and the like. A low ON resistance Super Junction MOSFET is built in for significantly improved efficiency, ensuring compliance with the latest Energy Star* standard. Delivers an optimized power supply system for sets of all types.

*An international environmental leveling system for energy saving in OA equipment

Complies with the latest international standards for efficiency



Low standby power



Compact surface mount package

Compact surface mount type
reduces mounting area by 47%
(Compared to DIP7 type)

SOP8
6.2×5.0×1.5mm

Actual Size

Ideal for small home appliances

Common Specifications

- PWM Current Mode method (PWM frequency: 65kHz, built-in hopping function)
- Burst operation during light loads / Frequency reduction function
- 650V startup circuit and switching SJ MOSFET built-in
- Protection functions
 - Thermal shut down
 - Source pin open/short protection
 - Secondary overcurrent protection (64ms timer auto restore)

Select the protection functions, ON resistance, and package based on the application

High-Power Insertion Type (BM2Pxxx Series)				
DIP7 Package (9.2×6.35×4.3mm)				
AC/DC Output Power	Protection Functions		MOSFET ON Resistance	Part No.
	BR ^{*1}	VCC OVP ^{*2}		
8W Class	✓	Latch	8.5Ω (typ.)	BM2P091
	✓	Auto Restart		BM2P092
		Latch		BM2P093
		Auto Restart		BM2P094
13W Class	✓	Latch	4.0Ω (typ.)	BM2P051
	✓	Auto Restart		BM2P052
		Latch		BM2P053
		Auto Restart		BM2P054
19W Class	✓	Latch	2.4Ω (typ.)	BM2P031
	✓	Auto Restart		BM2P032
		Latch		BM2P033
		Auto Restart		BM2P034
25W Class	✓	Latch	1.4Ω (typ.)	BM2P011
	✓	Auto Restart		BM2P012
		Latch		BM2P013
		Auto Restart		BM2P014

Compact Surface-Mount Type (BM2PxxxF Series)				
SOP8 Package (6.2×5.0×1.5mm)				
AC/DC Output Power	Protection Functions		MOSFET ON Resistance	Part No.
	BR ^{*1}	VCC OVP ^{*2}		
5W Class	✓	Latch	8.5Ω (typ.)	BM2P091F
	✓	Auto Restart		BM2P092F
		Latch		BM2P093F
		Auto Restart		BM2P094F
8W Class	✓	Latch	4.0Ω (typ.)	BM2P051F
	✓	Auto Restart		BM2P052F
		Latch		BM2P053F
		Auto Restart		BM2P054F

*1: Brown in/out voltage protection function
*2: Vcc pin over-/under-voltage protection function