

ECOMOS™

High Efficiency MOSFETs for DC/DC Power Supplies



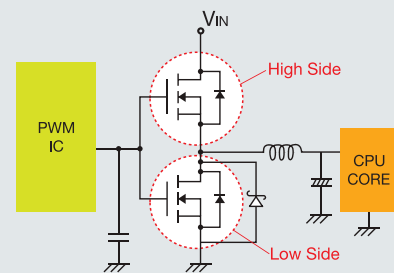
Unique structure significantly reduces switching loss in synchronous rectification DC/DC power supplies

ROHM's newest lineup of high power, large current, high efficiency MOSFETs integrates a unique low capacitance, low ON resistance element in a high heat dissipation package, making them ideal for DC/DC power supplies requiring lower power consumption. In addition, the units support high frequency synchronous rectification operation, contributing to smaller peripheral components.

High efficiency operation reduces power consumption

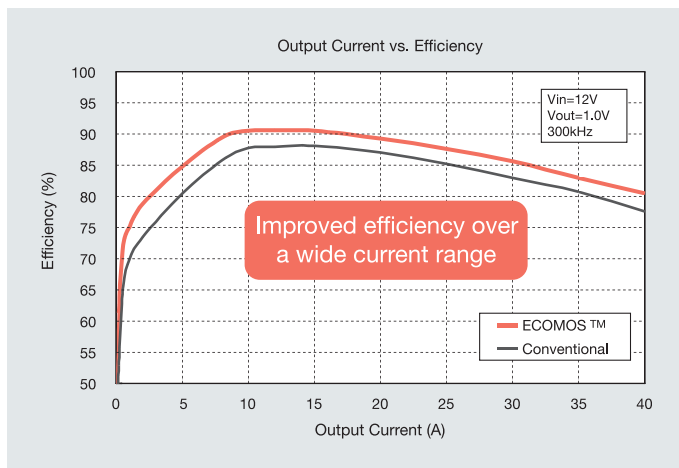
ROHM's ECOMOS™ features a low capacitance structure that ROHM dramatically reduces switching loss at the High Side of DC/DC power supplies while also providing low ON resistance for lower conduction loss at the Low Side. The result is improved overall circuit efficiency. In addition, in order to guarantee synchronous rectification performance every product is tested for Rg and UIS.

Application Circuit Example

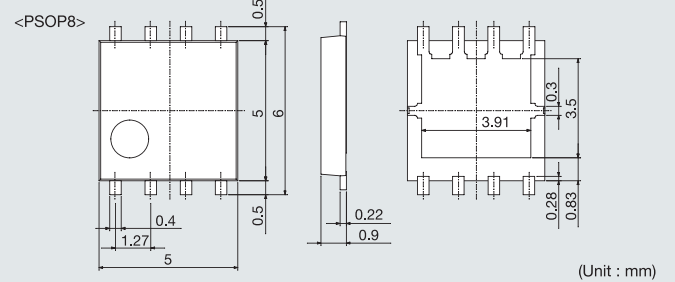


Applications

- Notebook PCs, desktop PCs, tablet PCs
- Compact power supply modules in industrial equipment



External Dimensions



Specifications

Package	Pd (W)	Polarity	Part No.	V _{DSS} (V)	V _{GSS} (V)	I _D (A)	R _{DS(ON)} typ. (mW)		Q _g (nC) (V _{GS} =4.5V)	Q _{gd} (nC)
							V _{GS} =10V	V _{GS} =4.5V		
PSOP8	3.0	Nch	RMW280N03	30	20	28	2.0	2.7	27.0	11.8
			RMW200N03	30	20	20	3.0	4.0	14.4	5.5
			RMW180N03	30	20	18	4.0	5.5	12.2	4.7
			RMW150N03	30	20	15	6.5	9.0	8.0	3.0
			RMW130N03	30	20	13	9.0	12.6	6.2	2.6

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