



24V SY21138(6A) & SY21243(8A)

DCDC Synchronous Step-Down Regulators

A family of 24V regulators in tiny 2.5x2.5mm DFN packages

Part Number	V _{IN} (V)	I _{OUT} (A)	V _{REF} (V) * Fixed Vout	I _Q /I _{SHDN} (uA)	F _{SW} (MHz)	Internal Switches HS/LS (mΩ)	Package
SY21138	4.5 ~ 24	6	0.6	100/5	0.5	38/19	QFN2.5x2.5-16
SY21138A					0.6		
SY21138B			3.338*	75/5			
SY21243	4.5 ~ 24	8	0.6	100/5	0.5	30/15	QFN2.5x2.5-16
SY21243A	4 ~ 24		0.6	140/5	0.6	20/10	
SY21243B3	4 ~ 24		3.338*	85/5			
SY21243C3	5.5 ~ 24		5.1*				
SY21243D3	4 ~ 24		0.6	140/5	0.5		

FEATURES

24V Input voltage (28V AbsMax)

Fully Synchronous with low R_{DS(ON)} switches

Instant PWM™ for Ultra Fast Dynamic Response

PFM/FCCM Selectable Light Load Mode (SY21138 only)

PFM/USM Selectable Light Load operation (SY21243 only)

Internal Vref with +/-1% tolerance over -40°C to +125°C

Internal Soft-start -> limits inrush current

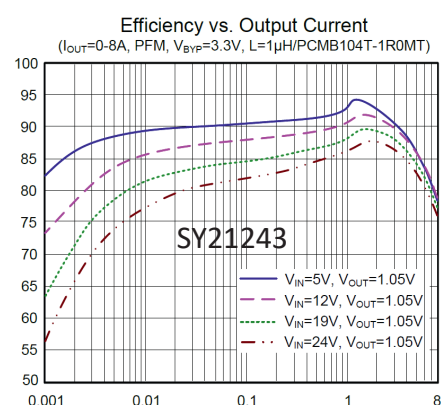
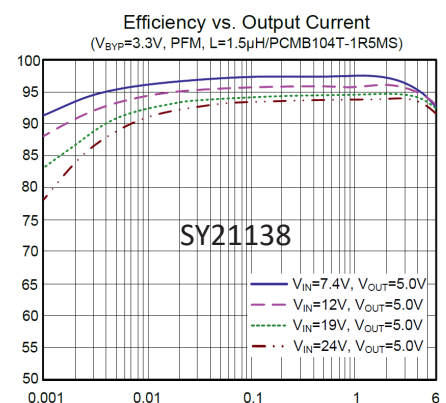
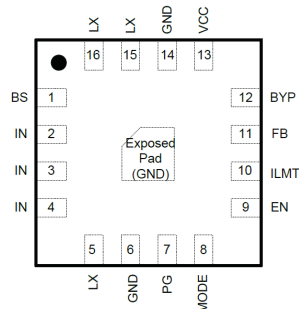
Programmable Valley Current Limit

Power Good (PG) indicator

Output Auto Discharge function

RoHS and Halogen Free

Compact DFN2.5x2.5-16 package



Highly Efficient - Space Saving - Easy Design - Robust Performance
Silergy's regulators simplify the Art of Power Supply Design

Symmetron

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