



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

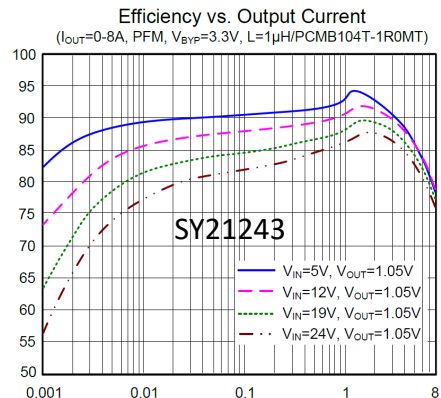
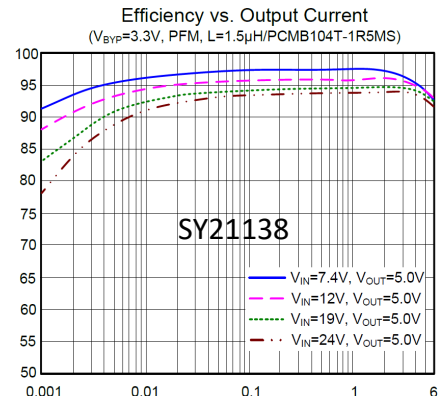
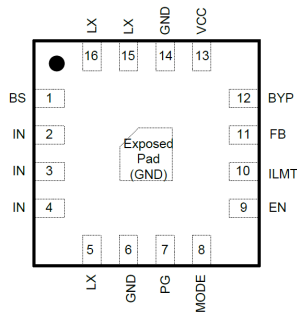
## DCDC Synchronous Step-Down Regulators

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

Part Number	V <sub>IN</sub> (V)	I <sub>OUT</sub> (A)	V <sub>REF</sub> (V) * Fixed V <sub>out</sub>	I <sub>Q</sub> /I <sub>SHDN</sub> (μA)	F <sub>SW</sub> (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		36/18	
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<sub>DS(ON)</sub> 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