



ULTRA LOW 400nA I_Q

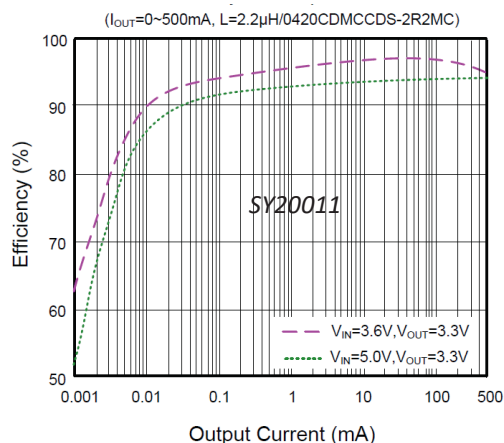
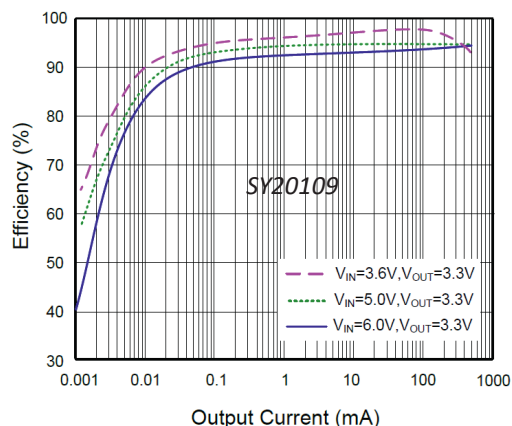
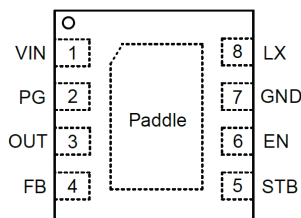
DC-DC Synchronous Step-Down Regulators

In tiny 2x2mm DFN packages

Part Number	Quiescent/ Shutdown Current (nA)	V _{IN} (V)	I _{OUT} (A)	V _{REF} (V)	F _{SW} (MHz)	Package	Internal Switches HS/LS (mΩ)	Features
SY20109	400/10	2.4 ~ 6.5	0.5	1.2	1.0	DFN2x2-8	300/130	PWM/PFM control and PG with OCP/OVP/OTP 100% BYPASS mode when Vin=Vout
SY20109B		2.4 ~ 6.0	1.0					
SY20011		2.2 ~ 5.5	0.5				280/120	
SY20011B		2.0 ~ 5.5						

FEATURES

- Fully Synchronous with low $R_{DS(ON)}$ switches
- 100% Dropout Operation
- Internal Soft-start -> *limits inrush current*
- Instant PWM for Ultra Fast Dynamic Response
- 1MHz Switching Frequency -> *small external components*
- Power Good (PG) indicator
- Output Auto Discharge function
- Hic-cup mode for Short Circuit Protection
- RoHS and Halogen Free
- Tiny DFN2x2-8 package



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

Symmetron

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