



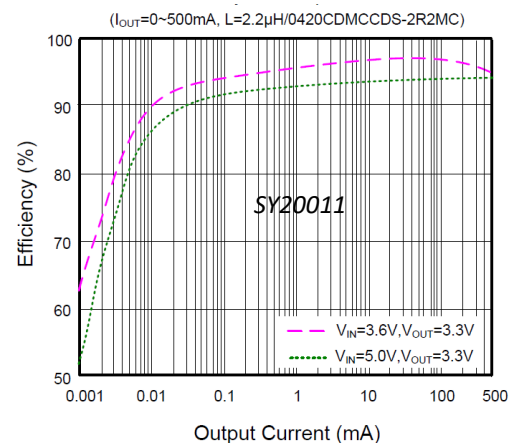
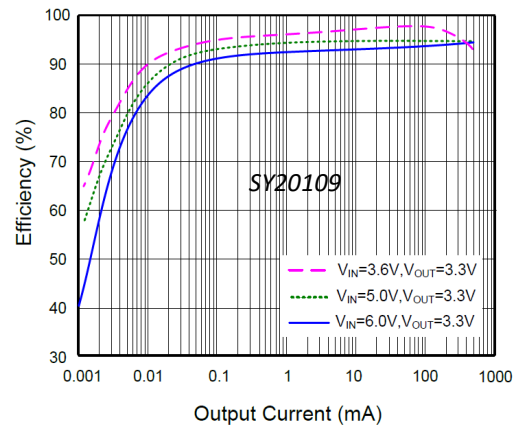
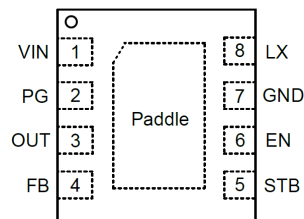
ULTRA LOW 400nA I_Q DCDC Synchronous Step-Down Regulators

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 (m Ω)	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 $V_{in}=V_{out}$
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