



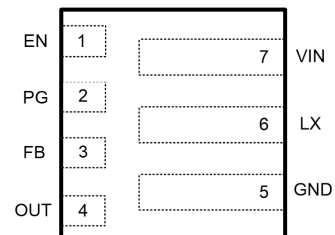
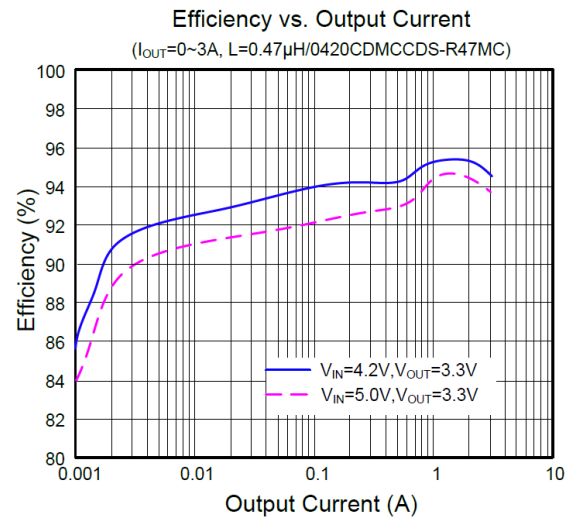
6V SY26003A/3/4/6 DCDC Synchronous Step-Down Regulators

A family of 3-6A regulators in tiny 2x2mm DFN packages

Part Number	Quiescent/Shutdown Current (uA)	V _{IN} (V)	I _{OUT} (A)	V _{REF} (V)	F _{SW} (MHz)	Package	Internal Switches HS/LS (mΩ)	Features
SY26003A/3	23/0.1	2.5~6.0	3	0.6/0.8	2.4	DFN2x2-7	31/23	PWM/PFM control and PG with OCP/OVP/OTP
SY26004			4	0.6	2.4		25/17	
SY26006			6	0.6	1.0		22/11	

FEATURES

- 2.5V to 6.0V Input voltage (*7V AbsMax*)
- Fully Synchronous with low R_{DS(ON)} switches
- 100% Dropout Operation
- Internal Soft-start -> *limits inrush current*
- V_{ref} 0.6V/0.8V with +/-1% tolerance over -40°C to +125°C
- Instant PWM for Ultra Fast Dynamic Response
- High 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 DFN2x2-7 package



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