



6V SY26003A/3/4/6

DC-DC Synchronous Step-Down Regulators

A family of 3...6A regulators in tiny 2x2mm DFN package

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*

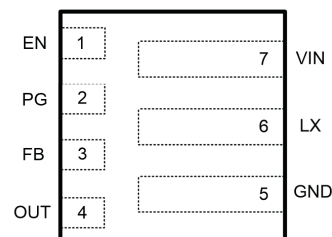
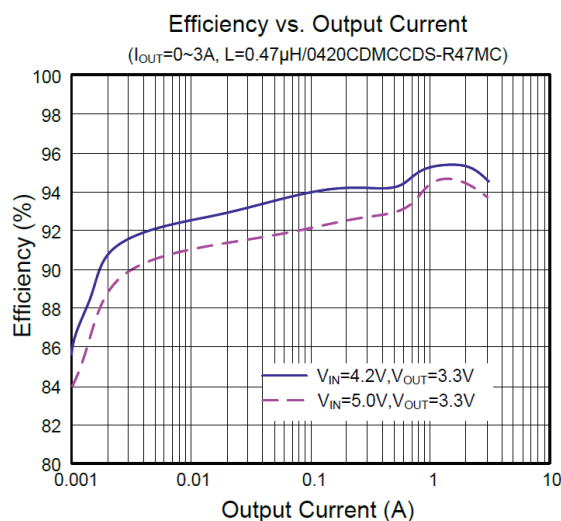
Power Good (PG) indicator

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

Symmetron

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