



High Voltage DCDC Step-Down Regulators

A Range of 100V 0.6A-3.0A regulators
suitable for *Industrial & Telecom* applications

Part Number	Quiescent/ Shutdown Current (μ A)	V_{IN} (V)	I_{out} (A)	V_{OUT} (V)	F_{SW} (MHz)	Package (Pinout)	Internal Switches HS/LS (m Ω)	Features
SY21034ADC	100/9	4.5-100	0.6	$0.6*(1+RH/RL)$	0.2	TSOT23-6 (A)	1000/-	Instant PWM
SY21035FCC	-/8	7-100	0.6	$1.225*(1+RH/RL)$	0.2-0.6	SO8E (B)	500/285	Instant PWM with FCCM
SY21051FCC	400/5	7-100	1	$1.2*(1+RH/RL)$	0.2-1.0	SO8E (B)	500/240	Instant PWM
SY21053FCC	-/8	7-100	1	$1.225*(1+RH/RL)$	0.2-0.6	SO8E (B)	500/240	Instant PWM with FCCM
SY21252FCC	100/2	4.5-100	2	$0.8*(1+RH/RL)$	0.1-0.5	SO8E (C)	150/-	Adaptive COT and Power Good
COMING SOON SY21253FCC	100/2	4.5-100	3	$0.8*(1+RH/RL)$	0.1-0.5	SO8E (C)	150/-	Adaptive COT and Power Good

FEATURE Highlights

100V Input Voltage

Synchronous devices have low $R_{DS(ON)}$ switches

2ms internal Soft-start -> *limits inrush current*

Programmable Switching Frequency

SY21035/53 have precise $\pm 2\%$ V_{ref} (-40°C to $+125^{\circ}\text{C}$)

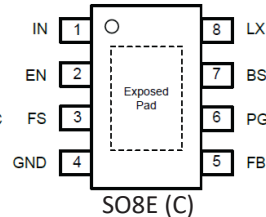
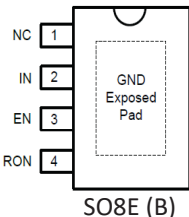
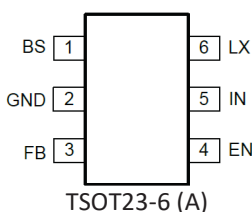
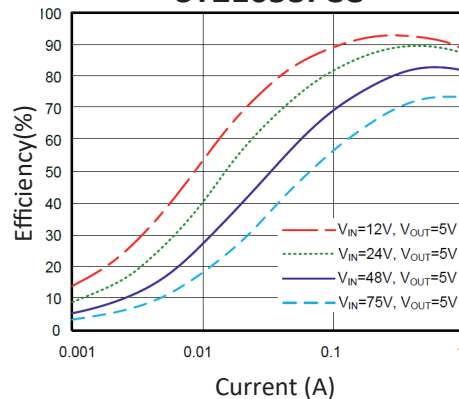
Instant PWM operation -> *Fast Transient Response*

Cycle-by-Cycle Peak Current Limit

UVLO, OCP, OTP protection

RoHS Compliant and Halogen Free

SY21053FCC



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

Symmetron

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