

1A Synchronous Step-Up PWM Converter



General Description

The FP6295 is a Synchronous boost DC-DC converter. Its PWM circuitry with built-in 0.2Ω power MOSFET makes this converter highly power efficiently. High switching frequency allows faster loop response and easy filtering with a low noise output. The non-inverting input its error amplifier is connected to an internal 1.24V precision reference voltage. Current mode control and external compensation network make it easy and flexible to stabilize the system.

The FP6295 is available in the MSOP-8L (EP) package. Combined with low ESR capacitors, it reduced PCB space for step-up applications.

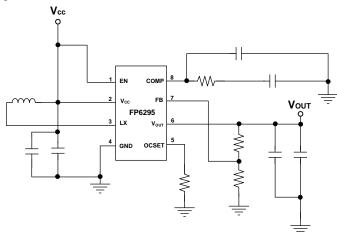
Features

- Adjustable Output from V_{CC} to 5V
- > Internal Fixed PWM Frequency: 1.2MHz
- > Precision Feedback Reference Voltage: 1.24V
- > Internal 0.2Ω, 2A, 5V Power MOSFET
- Shutdown Current : 0.1μA
- > Current Limite ,Enable Function
- Package: MSOP-8L (EP)

Applications

- Chargers
- Digital Cameras
- > Handheld Devices
- > Portable Products

Typical Application Circuit

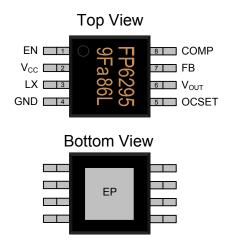


This datasheet contains new product information. Feeling Technology reserves the rights to modify the product specification without notice. No liability is assumed as a result of the use of this product. No rights under any patent accompany the sales of the product.

Website: http://www.feeling-tech.com.tw

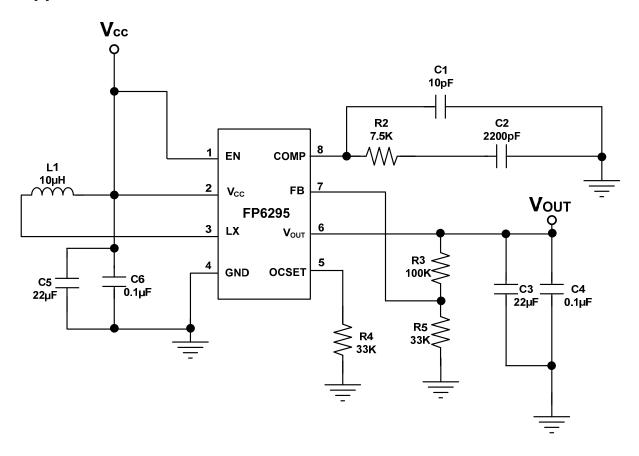


MSOP-8L



Name	No.	1/0	Description
EN	1	0	Enable Control
V _{CC}	2	I	Supply Voltage
LX	3	I	Switch Output
GND	4	Р	IC Ground
OCSET	5	0	Set Switch Output Over Current
V _{OUT}	6	0	Output Voltage
FB	7	0	Feedback
COMP	8	Ī	Error Amplifier Compensation Output
EP	9	Р	Exposed PAD. Must connect to GND

Application Circuit

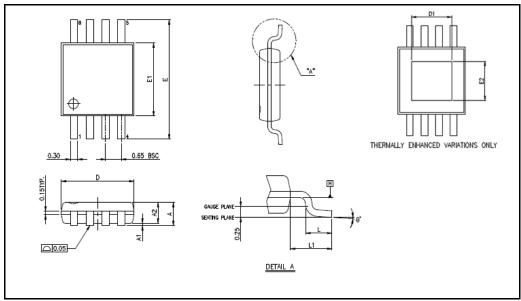


This datasheet contains new product information. Feeling Technology reserves the rights to modify the product specification without notice. No liability is assumed as a result of the use of this product. No rights under any patent accompany the sales of the product.

Website: http://www.feeling-tech.com.tw
Rev. 0.6



Package Outline MSOP-8L (EP)



Unit: mm

Symbols	Min. (mm)	Max. (mm)	
Α		1.100	
A1	0.000	0.150	
A2	0.750	0.950	
D	3.000 BSC		
E	4.900 BSC		
E1	3.000 BSC		
L	0.400	0.800	
L1	0.950 REF		
θ°	0°	8°	

MSOP-8L (EP) continued

Symbols	Min. (mm)	Max. (mm)
E2	1.555 REF	
D1	1.600 REF	

Note:

- 1. Package dimensions are in compliance with JEDEC outline: MO-187 AA.
- 2. Dimension "D" does not include molding flash, protrusions or gate burrs.
- 3. Dimension "E1" does not include inter-lead flash or protrusions.

This datasheet contains new product information. Feeling Technology reserves the rights to modify the product specification without notice. No liability is assumed as a result of the use of this product. No rights under any patent accompany the sales of the product.

Website: http://www.feeling-tech.com.tw
Rev. 0.6