

# SX0104M Power Module

Low Input Voltage, 4A Buck Converter With Integrated Inductor

## Features

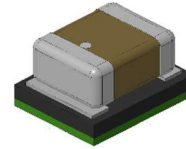
- VIN operation ranges from 2.6V to 5.5V
- Up to 4A Continuous Operating Current
- Low quiescent current of 30uA at No Load
- Low shutdown current, maximum 1uA
- Low Dropout voltage
- Internally compensated
- No thermal derating up to max load over operating temperature range due to low package thermal resistance
- Wide adjustable VOUT range with 1% accuracy overall operating line, load, and temperature conditions
- PFM mode of operation for High efficiency at light loads
- Thermal, Over-Current, Short-Circuit, Under-Voltage, and Pre-Bias Protections
- Very Small, Fully Integrated with Well-Optimized Form Factor, Open-Top Module (2.4mm x 3.0mm x 1.97mm)

## Module Form Factor

2.4 x 3.0 x 1.97mm 14L Open-Top Module  
(with integrated IC + inductor)

Inductor: chip inductor

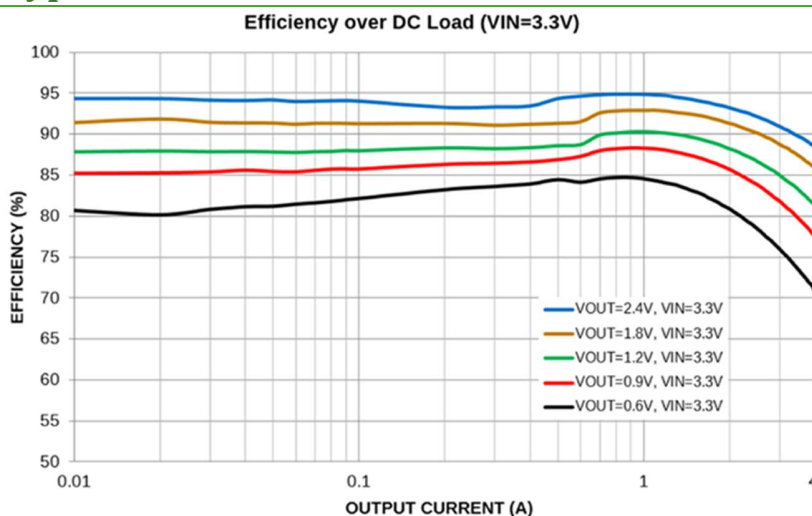
Die: Monolithic CMOS



## Applications

- Highly Space Constraint, High Power Density applications with Ease of Use
- Optical Modules and Optical Networks
- Handheld Devices
- Medical devices
- Test and Measurement
- Industrial and Instrumentation
- Telecommunication

## Typical Performance Characteristics



## Typical Application Circuit

