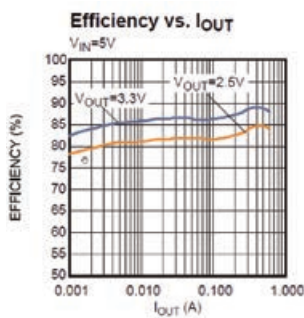


ULTRA-SMALL MPM3804 (5.5 V, 0.6 A) – STEP-DOWN CONVERTER MODULE



The MPM3804 is a monolithic, step-down, switch-mode converter with built-in, internal power MOSFETs and an inductor. The MPM3804 achieves 0.6 A of continuous output current from a 2.3 V to 5.5 V input voltage range with excellent load and line regulation. The output voltage can be regulated as low as 0.6 V. Only input capacitors, output capacitors, and feedback (FB) resistors are required to complete the design. The constant-on-time (COT) control scheme provides a fast transient response, high light-load efficiency, and easy loop stabilization.

Full protection features include cycle-by-cycle current limiting and thermal shutdown. The MPM3804 is ideal for a wide range of applications, including high-performance DSPs, wireless power, portable and mobile devices, and other low-power systems. The MPM3804 requires a minimal number of readily available, standard, external components and is available in an ultra-small QFN-10 (2 mm x 2 mm) package.

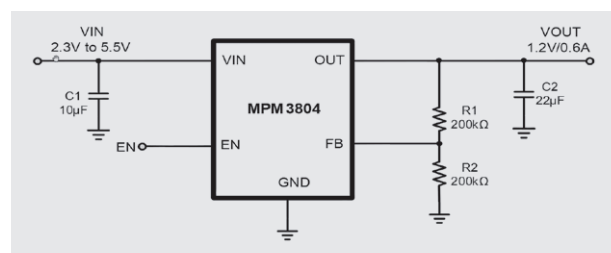


FEATURES

- Up to 91 % Peak Efficiency
- Low IQ: 11 μ A
- Wide 2.3 V to 5.5 V Operating Input Range
- Output Voltage as Low as 0.6 V
- 100% Duty Cycle in Dropout
- 0.6 A Output Current
- 120 m Ω and 80 m Ω Internal Power MOSFETs
- 2.4 MHz Frequency
- EN and Power Good for Power Sequencing
- Cycle-by-Cycle Over-Current Protection (OCP)
- 0.5 ms Internal Soft-Start Time
- Output Discharge
- Short-Circuit Protection (SCP) with Hiccup Mode
- Thermal Shutdown
- Stable with Low ESR Output Ceramic Capacitors
- Ultra-Small 2 x 2 x 0.9 mm QFN-10 Package

APPLICATIONS

- Optical Modules
- Industrial Products
- IOT Devices
- Space Constrained Applications
- Low-Voltage I/O Supplies
- LDO Replacement



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Zertifiziert nach ISO 9001/14001

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