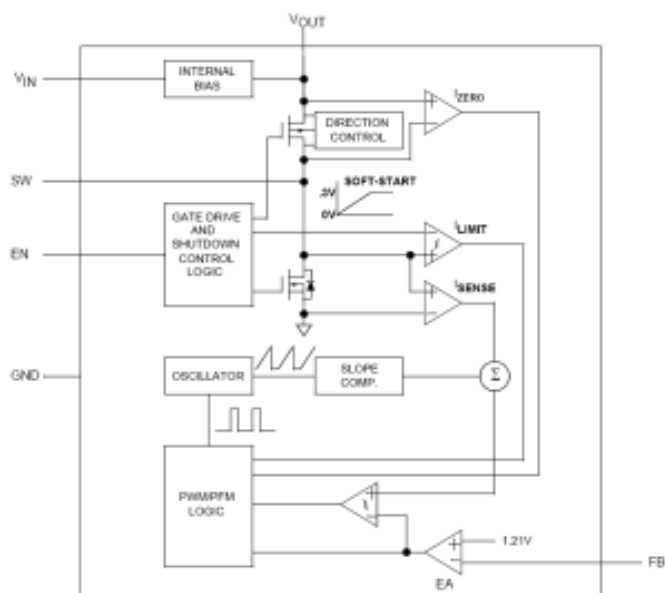


MCP1623/24 je synchrónny "boost" (step-up) regulátor, ktorý dokáže z minimálneho vstupného napätia 0,65V (baterka), generovať výstupné napätie 2,0 až 5,0V potrebné pre Váš mikrokontrolér, s 96% (typ.) účinnosťou.

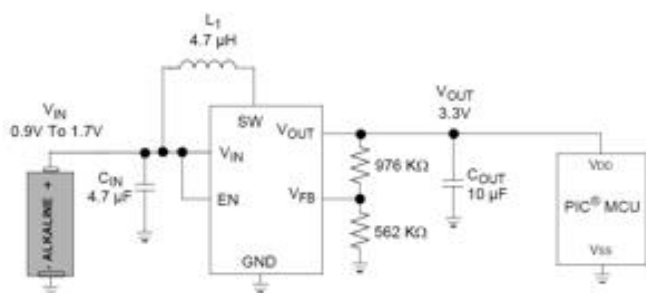
Vlastnosti

- Up to 96% Typical Efficiency
- 425 mA Typical Peak Input Current Limit:
 - IOUT > 50 mA @ 1.2V VIN, 3.3V VOUT
 - IOUT > 175 mA @ 2.4V VIN, 3.3V VOUT
 - IOUT > 175 mA @ 3.3V VIN, 5.0V VOUT
- Low Start-up Voltage: 0.65V, typical 3.3V VOUT @ 1 mA
- Low Operating Input Voltage: 0.35V, typical 3.3VOUT @ 1 mA
- Adjustable Output Voltage Range: 2.0V to 5.5V
- Maximum Input Voltage $\square$ VOUT < 5.5V
- Automatic PFM/PWM Operation (MCP1624)
- PWM-only Operation (MCP1623)
- 500 kHz PWM Frequency
- Low Device Quiescent Current: 19 μ A, typical PFM mode
- Internal Synchronous Rectifier
- Internal Compensation
- Inrush Current Limiting and Internal Soft-Start
- True Load Disconnect
- Shutdown Current (All States): < 1 μ A
- Low Noise, Anti-Ringing Control
- Overtemperature Protection
- SOT-23-6 Package

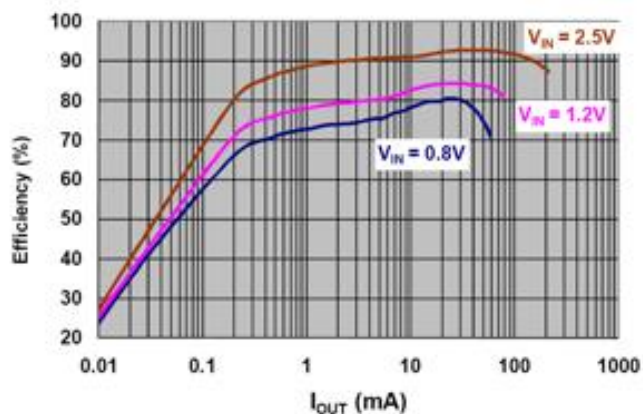
Blokové zapojenie



Aplikačné zapojenie



Graf - účinnosť vs. výst. prúd I_{OUT} (Pri V_{OUT} 3.3V)



Cena

Cena začína od 0,45 USD pri kusových množstvách.

Odkazy

[MCP1623 Homepage](#)

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[MCP1623/24 Datasheet](#)

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