

MPQ4430 FAMILY (36 V, 1 ... 3.5 A)



Automotive Systems



Industrial Power Systems

APPLICATIONS

- Automotive Systems
 - Infotainment
 - Telematics
 - Cluster
 - Gateway
- Industrial Power Systems

WHY USE THIS PART?

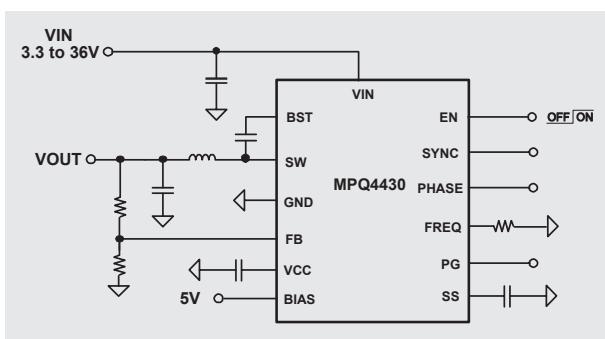
It's simple and easy!

- Low quiescent current in standby
- Improved efficiency performance and EMI
- Minimal external components
- Simplified layout
- Small package saves space
- Highly efficient output current
- Integrated internal high-side and low-side MOSFETs

FEATURES

- 10 μ A Operating current in sleep mode
- Fixed output options*: 5 V, 3.3 V
- Synchronizable in-phase and 180°
- Hiccup over-current protection
- PG, ext. SS, forced CCM
- 80 ns Minimum on time
- Low dropout mode
- Available in wettable flank package

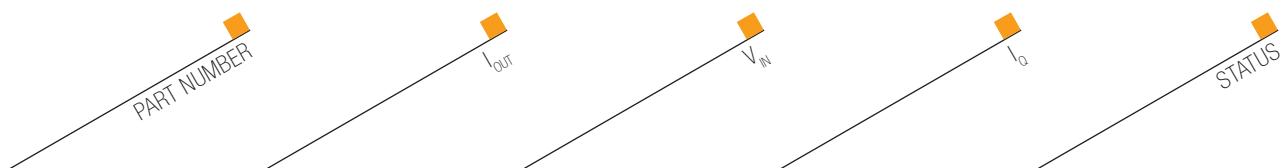
*Available upon request



Available in a QFN-16 (3mmx4mm) Package

KEY Specs

| | |
|--|-------------------------------|
| Input Voltage | 3.3 ... 36 V |
| Output Current | 1 ... 3.5 A |
| Switching Frequency | 300 kHz ... 2.5 MHz |
| HS/LS FET $R_{DS(ON)}$ | 90 m Ω / 40 m Ω |
| Package | QFN-16 3x4 |



MPQ4430 FAMILY – SPECIFICATIONS

| MPQ4430 | 3.5 A | 3.3 V ... 36 V | 10 μ A | Production |
|---------|-------|----------------|------------|---------------|
| MPQ4431 | 1 A | | | Production |
| MPQ4432 | 2.2 A | | | Production |
| MPQ4433 | 3 A | | | Production |
| MPQ4436 | 6 A | 3.3 V ... 42 V | | Sampling 4Q17 |