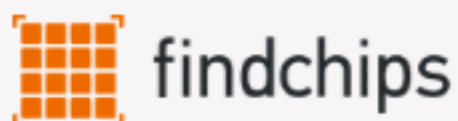


Part Name

▼ MP1593DN



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MP1593DN View Datasheet(PDF) - Monolithic Power Systems

| Part Name | Description | MFG CO. |
|-----------|-------------------------------------|------------------------------|
| MP1593DN | 3A, 28V, 385KHz Step-Down Converter | Monolithic Power Systems |

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MP1593

**3A, 28V, 385KHz
Step-Down Converter**

DESCRIPTION

The MP1593 is a step-down regulator with an internal Power MOSFET. It achieves 3A of continuous output current over a wide input supply range with excellent load and line regulation.

Current mode operation provides fast transient response and eases loop stabilization.

Fault condition protection includes cycle-by-cycle current limiting and thermal shutdown. An adjustable soft-start reduces the stress on the input source at startup. In shutdown mode the regulator draws 20µA of supply current.

The MP1593 requires a minimum number of readily available external components, providing a compact solution.

FEATURES

- 3A Output Current
- Programmable Soft-Start
- 100mΩ Internal Power MOSFET Switch
- Stable with Low ESR Output Ceramic Capacitors
- Up to 95% Efficiency
- 20µA Shutdown Mode
- Fixed 385KHz Frequency
- Thermal Shutdown
- Cycle-by-Cycle Over Current Protection
- Wide 4.75V to 28V Operating Input Range
- Output Adjustable from 1.22V
- Under-Voltage Lockout
- Available in 8-Pin SOIC Package

EVALUATION BOARD REFERENCE

| Board Number | Dimensions |
|--------------|------------|
| | |

18+

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Подробнее

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