



High Efficiency 1MHz, 2A Step Up Regulator

General Description

The AP1576 and AP1576B are high efficiency boost regulators targeted for general step-up applications. AP1576B incorporates input over-voltage protection and turn off the regulator when the input voltage exceeds 7V.

Ordering Information

AP1576 □(□□)□
Temperature Code
C: -40°C~85°C
Package Code:
AB: SOT23-6
Spec Code
None: 0.6 V_{REF}
B: 1V_{REF}

Features

- Wide input range: 3-25V bias input, 25V_{OUT} max
- 1MHz switching frequency
- Minimum on time: 100ns typical
- Minimum off time: 100ns typical
- Low R_{DS(on)}: 0.2ohm
- Programmable softstart: AP1576B
- 7V input OVP protection: AP1576B
- RoHS Compliant and Halogen Free
- Accurate Reference:
 - o AP1576, 0.6V_{REF}
 - o AP1576B: 1V_{REF}
- Compact package: SOT23 6 pins

Applications

WLED Drivers
Networking cards powered from PCI or PCI-express slots

Typical Applications

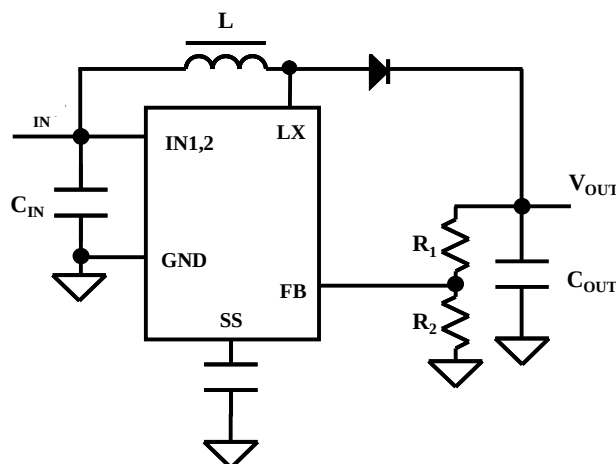


Fig. 1 Typical Schematic Diagram