High-Performance Non-Isolated AC/DC Converter IC

Overview

PN8036 integrates a PFM controller and a 650V high-avalanche rugged power MOSFET. Designed for compact low-power non-isolated offline supplies, it incorporates a 650V high-voltage startup circuit, overload, undervoltage and overtemperature protection. Frequency modulation helps improve EMI performance.

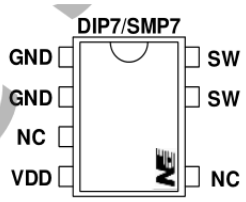
Product Features

- Integrated 650V avalanche-rated power MOSFET
- Built-in high-voltage startup circuit
- Optimized for non-isolated 12V output
- Up to 6W @ 230VAC in semi-enclosed operation
- Frequency modulation for improved EMI
- High conversion efficiency and low standby power
- Comprehensive protection:
  - Overload Protection (OLP)
  - Overtemperature Protection (OTP)
  - Undervoltage Lockout (UVLO)

Applications

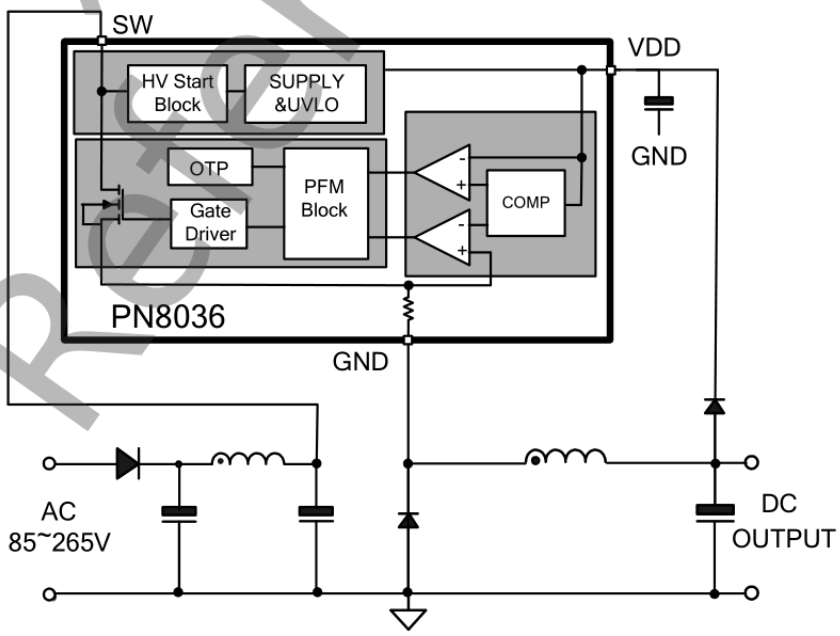
- Non-isolated auxiliary power supplies

Package / Ordering Information



Order Part Number	Package
PN8036NSC-T1	DIP7
PN8036SM-A1	SMP7

Typical Application Schematic



Reference Only