

Product Overview

NCP45560: Load Switch, Integrated, ecoSWITCH™, 23 A, Fault Protection

For complete documentation, see the data sheet.

The NCP45560 load switch provides a component and area-reducing solution for efficient power domain switching with inrush current limit via soft-start. In addition to integrated control functionality with ultra low on-resistance, this device offers system safeguards and monitoring via fault protection and power good signaling. This cost effective solution is ideal for power management and hot-swap applications requiring low power consumption in a small footprint.

Features

- Advanced Controller with Charge Pump
- Integrated N-Channel MOSFET
- Soft-Start via Slew Rate Control (Adjustable)
- Input Voltage Range 0.5 V to 13.5 V (18V Tolerant)
- Low Standby Current
- Quick Output Discharge Function (Adjustable)
- No External Components Required
- Power Good Signaling
- Enable Pins with CMOS Input Levels
- Fault Protection: Over Temperature

For more features, see the data sheet

Applications

- Power Management
- System Protection
- Hot Swapping

End Products

- Portable Electronics and Systems
- Telecom, Networking, Medical, and Industrial Equipment
- Set-top Boxes
- Residential Gateways
- Notebook and Tablet Computers

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Channels | r_{on} (m Ω) | Max Current (A) | V_{in} Min (V) | V_{in} Max (V) | Package Type |
|------------------|-------------------|--|--------|----------|------------------------|-----------------|------------------|------------------|--------------|
| NCP45560IMNTWG-H | 0.6764 | Pb-free Halide free non AEC-Q and PPAP | Active | 1 | 2.4 | 23 | 0.5 | 13.5 | DFN-12 |
| NCP45560IMNTWG-L | 0.6667 | Pb-free Halide free non AEC-Q and PPAP | Active | 1 | 2.4 | 23 | 0.5 | 13.5 | DFN-12 |

For more information please contact your local sales support at www.onsemi.com.

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