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ON Semiconductor®

Energy Efficient Innovations

Product Overview

NCP45521: Load Switch, Integrated, ecoSWITCH™, 11.5 A, Fault Protection

For complete documentation, see the data sheet.

The ecoSWITCH™ NCP45520, NCP45521 series of load management devices provide 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 these devices offer additional 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 (NCP45521-Adjustable, NCP45520-Fixed)
- Ultra-Low On-Resistance
- Input Voltage Range 0.5 V to 13.5 V (18V Tolerant)
- Low Standby Current
- Quick Output Discharge Function (Adjustable)
- No External Components Required
- Enable Pins with CMOS Input Levels
- Power Good Signaling (NCP45520)

  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
- Enterprise Servers

Part Electrical Specifications

Product	Compliance	Status	Channels	r_{on} (mΩ)	I Max (A)	V_I Min (V)	V_I Max (V)	Package Type
NCP45521IMNTWG-H	Pb-free Halide free	Active	1	9.5	11.5	0.5	13.5	DFN-8
NCP45521IMNTWG-L	Pb-free Halide free	Active	1	9.5	11.5	0.5	13.5	DFN-8

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

Created on: 11/6/2017