



## Product Overview

### NCP45560: Load Switch, Integrated, ecoSWITCH™, 17 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	Over Current Shutdown (Y/N)	Over Current - Current Source (Y/N)	Current Limit (FIXED/ADJ/N/O)	Over Voltage Protection (Y/N)	Reverse Current Blocking (Y/N)	FAULT Signal (Y/N)	PGOOD (Y/N)	UVLO (Y/N)	R <sub>ds(on)</sub> Typ (mΩ)	Max Current (A)	Output Discharge (Y/N)	IMON Output (Y/N)	Adjustable Slew Rate (Y/N)	V <sub>inMin</sub> (V)	V <sub>inMax</sub> (V)	I <sub>q</sub> (μA)	eFuse / Hot Plug (Y/N)	Inp / Output	Product Family	Package Type
NCP45560IMNTWG-H	0.6147	Pb-free Halide free non AEC-Q and PPAP	Active	Y	N	FIXED	N	N	N	Y	Y	4.1	14	Y	N	Y	0.5	13.5	750	Y	1:1	ecoSwitch	DFN-12
NCP45560IMNTWG-L	0.586	Pb-free Halide free non AEC-Q and PPAP	Active	Y	N	FIXED	N	N	N	Y	Y	4.1	17	Y	N	Y	0.5	13.5	750	Y	1:1	ecoSwitch	DFN-12

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Created on: 10/23/2021