

Product Overview

NCP456: Load Switch, 2 A Single, For Low Voltage Rail

For complete documentation, see the data sheet.

The NCP456R and NCP457 are power load switch with very low Ron NMOSFET controlled by external logic pin, allowing optimization of battery life, and portable device autonomy. Indeed, thanks to a best in class current consumption optimization with NMOS structure, leakage currents are drastically decreased. Offering optimized leakages isolation on the ICs connected on the battery.

Output discharge path is proposed, in the NCP457 version, to eliminate residual voltages on the external components connected on output pin.

Reverse voltage protection, from OUT to IN is offered in the NCP456R version.

Proposed in wide input voltage range from 0.75 V to 5.5 V, and a very small CSP6 0.85 x 1.25 mm².

Features

- 0.75 V - 5.5 V operating range
- DC Current up to 2 A
- Output Auto-discharge

Benefits

- Compatible with the latest generation of SoCs and CPUs
- Support for portable processors
- Eliminates residual voltage on the output rail

Applications

- Controlled load switch for Smartphones
- Controlled load switch for tablets
- Controlled load switch for computing

Part Electrical Specifications

Product	Compliance	Status	Channels	r_{on} (mΩ)	I Max (A)	V_I Min (V)	V_I Max (V)	Package Type
NCP456RFCCT2G	Pb-free	Active	1	24	2	0.75	5.5	WLCSP-6
	Halide free							
NCP457FCT2G	Pb-free Halide free	Active	1	24	2	0.75	5.5	WLCSP-6

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

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