Product Overview

NCV451: 3A Ultra-Small Low Ron and Controlled Load Switch with Auto-Discharge Path

For complete documentation, see the data sheet.

The NCV451A is a very low Ron MOSFET controlled by external logic pin, allowing optimization of battery life, and portable device autonomy.
Indeed, due to a current consumption optimization with NMOS structure, leakage currents are eliminated by isolating connected IC on the battery when not used.
Output discharge path is also embedded to eliminate residual voltages on the output rail.
Proposed in a wide input voltage range from 0.75 V to 5.5 V, in a small DFNW6 2.2 x 2 mm, 0.65 pitch package.

Features

- DC Current Up to 3A
- 21mΩ N MOSFET from 3.6V to 5.5V
- Output Auto-Discharge
- DFNW6 2.2 x 2 mm, 0.65 pitch
- 0,75V - 5.5V Operating Range

Benefits

- Able to switch heavy loads
- Minimize voltage drop and power losses
- Eliminates residual voltage on the output rail
- Reduces board space occupation

Applications

- ADAS Systems
- Camera Module
- Power Management

End Products

- Automotive

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Channels	r_{on} (mΩ)	I Max (A)	V_I Min (V)	V_I Max (V)	Package Type
NCV451AMNWTBG	0.24	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	21	3	0.75	5.5	DFNW-6

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

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