

Product Overview

NCP392C: Adjustable front end Overvoltage Protection Controller with /ACOK digital output and 100 V surge protection compliance

For complete documentation, see the data sheet.

The NCP392C is an overvoltage front end protection and be able to disconnect the systems from its output pin in case wrong input operating conditions are detected, up to +28 V. Thanks to this device using internal NMOS, no external device is necessary, reducing the system cost and the PCB area of the application board. Internal OVLO threshold is available, or can be adjusted if an external resistor bridge is used. At power up (/EN pin = low level), the Vout turns on tstart time after internal timer elapsed. The NCP392C features an /ACOK pin that indicates faulty condition

Features

- Over-voltage Protection Up to + 28V
- On-chip low Rdson NMOS transistors: Typical 34 mΩ
- Over-voltage Lockout (OVLO)
- Externally adjustable OVLO
- + 100 V surge capability, in compliance with IEC61000-4-5
- CSP-12 package 1.3 x 2.0 mm, 0.4p

Applications

- Front end protection of battery charging path
- Front end protection of +5V USB input path

Benefits

- Application robustness
- Ultra low drop voltage
- Protects downstream electronics
- Flexible design
- Front end with high surge protection level
- Saves PCB space

End Products

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