



NCP45521IMNGEVB: Integrated Load Switch with Ultra-Low Ron, 11.5A, Evaluation Board

The NCP45521IMNGEVB evaluation board is designed to quickly assess the NCP45521, an integrated load switch. 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 and Applications

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)
- Fault Protection: Over Temperature
- Fault Protection: Under Voltage Lockout
- Fault Protection: Short-Circuit Protection

Evaluation/Development Tool Information

Product	Status	Compliance	Short Description	Parts Used	Action
NCP45521IMNGEVB	Active	Pb-free	Integrated Load Switch with Ultra-Low Ron, 11.5A, Evaluation Board	NCP45521IMNTWG-H , NCP45521IMNTWG-L	» Contact Local Sales Office

Technical Documents

Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP45521IMNGEVB Bill of Materials ROHS Compliant	NCP45521IMNGEVB_BOM_ROHS - 76 KB	0
Eval Board: Gerber	NCP45521IMNGEVB Gerber Layout Files (Zip Format)	NCP45521IMNGEVB_GERBER - 15 KB	0
Eval Board: Schematic	NCP45521IMNGEVB Schematic	NCP45521IMNGEVB_SCHEMATIC - 157 KB	0
Eval Board: Test Procedure	NCP45521IMNGEVB Test Procedure	NCP45521IMNGEVB_TEST_PROCEDURE - 20 KB	0

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