

Product Overview

NCV47411: LDO Regulator, 100 mA, Low Dropout, High PSRR

For complete documentation, see the data sheet.

The NCV47411 is a dual integrated low dropout regulator with 100 mA per channel designed for use in harsh automotive environments. It includes wide operating temperature and input voltage ranges. The device is offered with adjustable voltage version available in 3% output voltage accuracy. It has a high peak input voltage tolerance and reverse input voltage protection. It also provides overcurrent protection, overtemperature protection and enable for control of the state of the output voltage of each channel. The integrated current sense feature provides diagnosis and system protection functionality. The current limit of the device is adjustable by resistor connected to CSO pin for each channel. CSO pin output current creates voltage drop across CSO resistor which is proportional to output current of each channel.

Features

- Enable Input (3.3 V Logic Compatible Thresholds)
- Adjustable Current Limit up to 150 mA
- Adjustable Voltage Version (from 3.3 V to 20 V) 3% Output Voltage
- Protection: Current Limitation, Thermal Shutdown, Reverse Input Voltage

Applications

- Audio and Infotainment System
- Instrument Cluster
- Navigation
- Satellite Radio

Benefits

- Save battery life - quiescent current down to 10µA max.
- Current sense feature provides diagnosis and system protection functionality.

End Products

- Automotive

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _o (V)	I _o Typ (A)	V _i Min (V)	V _i Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (µV _{rms})	Enable	PowerGood	Application	Package Type
NCV47411PAAJR2G	0.7377	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	Adj	0.1	-42	40	0.25	0.235	75	130	Yes	No	Automotive	TSSOP-14 EP

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