

NCV47701

LDO Regulator, 350 mA, Low Dropout, High PSRR



Product Overview

For complete documentation, see the data sheet.

The NCV47701 is a 350 mA output current integrated low dropout regulator designed for use in harsh automotive environments. It includes wide operating temperature and input voltage ranges. The device is offered with adjustable voltage versions 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. 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. Voltage on CSO pin is proportional to output current.

Features

- Enable Input
- Adjustable Current Limit (from 10 mA to 350 mA) with 10% accuracy
- AEC-Q100 Qualified
- Adjustable Voltage Version (from 5 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.
- Meets automotive qualification requirements.

End Products

- Automotive

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 _r _{ms})	Enable	PowerGood	Application	Package Type
NCV47701DAJR2G	0.7705		Active	Single	Positive	Adj	0.35	-42	40	0.25	0.15	70	100	Yes	No	Automotive	SOIC-8
NCV47701PDAJR2G	0.9505		Active	Single	Positive	Adj	0.35	-42	40	0.25	0.15	70	100	Yes	No	Automotive	SOIC-8 EP