



Product Overview

NCV8184: Linear Voltage Regulator, Tracking, 70 mA, with Enable

For complete documentation, see the data sheet

Product Description

The NCV8184 is a monolithic integrated low dropout tracking voltage regulator designed to provide an adjustable buffered output voltage that closely tracks (+/-3.0 mV) the reference input.

The part can be used in automotive applications with remote sensors, or any situation where it is necessary to isolate the output of your regulator.

The NCV8184 also enables the user to bestow a quick upgrade to their module when added current is needed, and the existing regulator cannot provide.

The versatility of this part also enables it to be used as a high-side driver.

Features

- 70 mA Source Capability
- Output Tracks within +/- 3m V
- Low Input Voltage Tracking Performance (Works Down to $V_{ref} = 2.0$ V)
- Low Dropout (0.35 V Typ. @50 mA)
- Low Quiescent Current
- Thermal Shutdown
- AEC Qualified
- PPAP Capable

Benefits

- Capability to power sensors external to the automotive module.
- Accurate tracking for use with A/D converters.
- Fits low voltage systems.
- Works well during automotive cranking.
- New automotive module requirements.
- Protective feature.
- Automotive requirement.
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Applications

- Sensor Applications
- Increased Regulator Capability

End Products

- Automotive

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V_O (V)	I_O Typ (A)	V_I Max (V)	V_{DO} Typ (V)	I_q Typ (mA)	PSRR (dB)	Noise (μV_{rms})	Package Type
NCV8184DR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Tracking	0.07	26	0.35	0.05	60		SOIC-8
NCV8184DTRKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Tracking	0.07	26	0.35	0.05	60		DPAK-5
NCV8184PDR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Tracking	0.07	26	0.35	0.05	60		SOIC-8 EP

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

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