



Product Overview

NCV8667: LDO Regulator, 150 mA, with Enable, Reset and Early Warning

For complete documentation, see the data sheet

Product Description

The NCV8667 is 150 mA LDO regulator with integrated enable, reset and early warning functions dedicated for microprocessor applications. Its robustness allows NCV8667 to be used in severe automotive environments. The NCV8667 utilizes precise 1 M internal resistor divider for Early Warning function which significantly reduces overall application quiescent current and number of external components. Very low quiescent current as low as 28 μ A (Adjustable Early Warning Thresholds) or 42 μ A (Preset Early Warning Thresholds) typical for NCV8667 makes it suitable for applications permanently connected to battery requiring very low quiescent current with or without load. The Enable function can be used for further decrease of quiescent current in shutdown mode to 1 μ A. The NCV8667 contains protection functions as current limit, thermal shutdown and reverse output current protection.

Features	Benefits
<ul style="list-style-type: none"> 5.0 V, +/-2%, 150 mA Very Low Quiescent Current: typ 28 μA for Adjustable Early Warning Threshold Option typ 42 μA for Preset Early Warning Threshold Option Microprocessor Compatible Control Functions: Reset with Adjustable Poweron Delay Early Warning Integrated Protection Features: Current Limitation Thermal Shutdown AEC Q100 qualified, PPAP capable 	<ul style="list-style-type: none"> Tight regulation limits Save battery life Microprocessor power management feature, design flexibility Self protection

Applications	End Products
<ul style="list-style-type: none"> Body Control Module Instruments and Clusters Occupant Protection and Comfort Powertrain 	<ul style="list-style-type: none"> 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 (μ V _{rms})	Package Type
NCV866710D150R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	40	0.225	0.028	60		SOIC-8
NCV866710D250R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	40	0.225	0.028	60		SOIC-14
NCV866752D250R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	40	0.225	0.042	60		SOIC-14

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