



Product Overview

NCV8752: 200mA Ultra-Low Quiescent Current, Ultra-Low Noise, Low Dropout Regulator with Power-Good Flag

For complete documentation, see the data sheet

Product Description

Noise sensitive applications and precision instrumentation require very clean power supplies. The NCV8752 is a 200mA LDO that provides the engineer with a very stable, accurate voltage with ultra-low noise and high Power Supply Rejection. The device doesn't require any additional noise bypass capacitor to achieve ultra-low noise levels. In order to optimize the performance for battery operated applications, the NCV8752 employs the Auto Low-Power Function for Ultra-Low Quiescent Current consumption.

Features	Benefits
<ul style="list-style-type: none"><li>• Input Voltage Range: 2.0V to 5.5V</li><li>• Available Fixed Output Voltage Options: 0.8V to 3.5V</li><li>• 2% Output Voltage Accuracy over load/line and temperature conditions</li><li>• Ultra-Low Output Noise: Typ. 11uVrms</li><li>• Ultra-Low Quiescent Current: Typ. 10uA</li><li>• Enable/Shutdown Pin Function</li><li>• Active Output Discharge</li><li>• Power-Good Output Flag</li><li>• Guaranteed Output Current: 200mA</li></ul>	<ul style="list-style-type: none"><li>• Well suited for low voltage applications</li><li>• Sub-bandgap output voltages available</li><li>• Assures Precise Output Voltage</li><li>• Very well suited for noise sensitive applications.</li><li>• Improved efficiency during light-load conditions</li><li>• Allows to turn ON/OFF the Regulator using logic I/O signal</li><li>• Fast Output Voltage Turn-off</li><li>• Provides Output Voltage monitoring function</li></ul>

Applications	End Products
<ul style="list-style-type: none"><li>• Low Power Sensor Power Supplies</li><li>• Noise Sensitive Applications</li><li>• Low Power MCU Power Supply</li><li>• Low Power FPGAs, DSPs</li></ul>	<ul style="list-style-type: none"><li>• Car and Portable GPS System</li><li>• Rear View Camera</li><li>• Electronic Mirrors</li><li>• Lane Change Detectors</li><li>• Car Infotainment Systems</li></ul>



Product	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O</sub> Typ (A)	V <sub>I</sub> Max (V)	V <sub>DO</sub> Typ (V)	I <sub>a</sub> Typ (mA)	PSRR (dB)	Noise (μV <sub>rms</sub> )	Package Type
NCV8752AMX18TCG	AEC Qualified	Active	Single	Positive	1.8	0.2	5.5	0.205	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752AMX28TCG	AEC Qualified	Active	Single	Positive	2.8	0.2	5.5	0.124	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752AMX30TCG	AEC Qualified	Active	Single	Positive	3	0.2	5.5	0.118	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752AMX33TCG	AEC Qualified	Active	Single	Positive	3.3	0.2	5.5	0.102	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752ASN18T1G	AEC Qualified	Active	Single	Positive	1.8	0.2	5.5	0.205	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752ASN28T1G	AEC Qualified	Active	Single	Positive	2.8	0.2	5.5	0.124	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752ASN30T1G	AEC Qualified	Active	Single	Positive	3	0.2	5.5	0.118	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752ASN33T1G	AEC Qualified	Active	Single	Positive	3.3	0.2	5.5	0.102	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752BMX18TCG	AEC Qualified	Active	Single	Positive	1.8	0.2	5.5	0.205	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752BMX28TCG	AEC Qualified	Active	Single	Positive	2.8	0.2	5.5	0.124	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752BMX30TCG	AEC Qualified	Active	Single	Positive	3	0.2	5.5	0.118	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											

NCV8752BMX33TCG	AEC Qualified	Active	Single	Positive	3.3	0.2	5.5	0.102	0.012	68	11.5	XDFN-6
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752BSN18T1G	AEC Qualified	Active	Single	Positive	1.8	0.2	5.5	0.205	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752BSN28T1G	AEC Qualified	Active	Single	Positive		0.2	5.5	0.124	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
NCV8752BSN30T1G	AEC Qualified	Active	Single	Positive	3	0.2	5.5	0.118	0.012	68	11.5	TSOP-5 / SOT-23-5
	PPAP Capable											
	Pb-free											
	Halide free											
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	PPAP Capable											
	Pb-free											
	Halide free											

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