

Product Overview

NCV8152: LDO Regulator, 150 mA, Ultra- Low Dropout, Low-Iq, High PSRR

For complete documentation, see the data sheet.

The NCV8152 is 150 mA, Dual Output Linear Voltage Regulator. Device provides a very stable and accurate voltage with ultra low noise and very high Power Supply Rejection Ratio (PSRR) suitable for RF applications. The NCV8152 is suitable for powering RF blocks of automotive infotainment systems and other power sensitive device. Due to low power consumption the NCV8152 offers high efficiency and low thermal dissipation.

Features

- Low Dropout: 140 mV Typical at 150 mA
- High PSRR: 75dB at 1kHz
- Thermal Shutdown and Current Limit Protections
- Very Low Quiescent Current of Typ. 50 μ A
- Available in XDFN-6 1.2 x 1.2 mm Package
- Operating Input Voltage Range: 1.9 V to 5.5 V

Benefits

- Supports applications with very low Input to Output Voltage requirements
- Suitable for power sensitive applications
- Robust design and high reliability
- Highly effective solution at light load conditions
- Very well suited for space-constrained applications
- Well suited for battery powered applications

Applications

- Touchscreen Controller Supply
- Wireless LAN, Bluetooth®, ZigBee® Interfaces
- Parking Camera Modules
- Automotive Infotainment Systems

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 (μ V _{rms})	Enable	Power Good	Package Type
NCV8152MX180180TCG	0.1783	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	1.8	0.15	1.9	5.25	0.27	0.05	75	75	Yes	No	XDFN-6
NCV8152MX180280TCG	0.1783	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	$\frac{2.8}{1.8}$	0.15	1.9	5.25	$\frac{0.16}{0.27}$	0.05	75	75	Yes	No	XDFN-6
NCV8152MX280180TCG	0.1783	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	$\frac{2.8}{1.8}$	0.15	1.9	5.25	$\frac{0.27}{0.16}$	0.05	75	75	Yes	No	XDFN-6
NCV8152MX300180TCG	0.1783	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	$\frac{1.8}{3}$	0.15	1.9	5.25	$\frac{0.27}{0.15}$	0.05	75	75	Yes	No	XDFN-6
NCV8152MX330180TCG	0.1783	AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual	Positive	$\frac{3.3}{1.8}$	0.15	1.9	5.25	$\frac{0.27}{0.14}$	0.05	75	75	Yes	No	XDFN-6

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

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