



Product Overview

NCP4640: Linear Voltage Regulator, Wide Input Range, 50 mA

For complete documentation, see the data sheet

Product Description

The NCP4640 is a 50mA CMOS Voltage Regulator with a wide input voltage range of 4V to 36V and a maximum input tolerance up to 50V. The device has a low quiescent current and its multiple protection features include a peak current limit circuit, a short circuit current limit and a thermal shutdown mechanism. The device is available in a SOT-89-5 where space is at a premium. The SOIC6-TL package which has greater power dissipation capability may introduced on demand. Voltage options are available in 100 mV steps from 2.0V to 12.0V. Contact your sales representative with specific requirements.

Features

- Low Iq at 9uA typical
- Operating Input voltage range of 4V to 36V
- Enable pin available to place device in standby
- Maximum input voltage tolerance of 50V
- Output Voltage Range: 2.0V to 12.0V in 100mV steps

Benefits

- Excellent choice for battery powered applications
- Suitable for a wide range of industrial applications
- Standby current: 0.1uA typ.

End Products

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
NCP4640H020T1G	Pb-free Halide free	Active	Single	Positive	2	0.05	50	0.2	0.009	30	80	SOT-89-5
NCP4640H030T1G	Pb-free Halide free	Active	Single	Positive	3	0.05	50	0.2	0.009	30	80	SOT-89-5
NCP4640H033T1G	Pb-free Halide free	Active	Single	Positive	3.3	0.05	50	0.2	0.009	30	80	SOT-89-5
NCP4640H080T1G	Pb-free Halide free	Active	Single	Positive	8	0.05	50	0.2	0.009	30	80	SOT-89-5
NCP4640H120T1G	Pb-free Halide free	Active	Single	Positive	12	0.05	50	0.2	0.009	30	80	SOT-89-5

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

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