

Product Overview

NCP4623: Linear Voltage Regulator, LDO, Wide Voltage Input, 150 mA

For complete documentation, see the data sheet

Product Description

The NCP4623 is a CMOS Linear voltage regulator designed for wide input voltage range. The maximum operating input voltage is up to 24 V with a minimum voltage starting from 2 V. The Chip Enable pin allows the device to lower the standby current to 0.1 μ A typ. The NCP4623 features many protections for any current or thermal sensitive devices with current fold-back protection, thermal shutdown protection, and peak and short current protection. This device is available in adjustable and fixed voltage output with 0.1 V steps. They are available in very thin XDFN6 1.6 x 1.6 x 0.4 mm in size and the very popular SOT23-5 and SOT89-5 packages. Please contact your local sales office for additional output voltage options.

Features

- Maximum Operating Input Voltage of 24 V
- Output Voltage Range:
2.5 V to 12.0 V (fixed in 0.1V steps)
2.5 V to 24.0 V (adjustable version)
- Supply Current: 5 μ A
- Current Fold Back Protection
- Peak and Short Current Protection
- Thermal Shutdown Protection

Benefits

- Capable of very wide input voltage range for any white or brown goods
- Variety of output voltage options to meet your solution
- Very good supply current for battery-powered equipment

Applications

- Battery-powered Equipment
- Networking and Communication Equipment
- Home Appliances

End Products

- Cellphone Chargers, Laptops, Computers
- Modems, Routers
- Cameras, DVRs, STB and Camcorders

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
NCP4623HMX033TCG	Pb-free Halide free	Active	Single	Positive	3.3	0.15	24	0.2	0.005	40	80	XDFN-6
NCP4623HMX045TCG	Pb-free Halide free	Active	Single	Positive	4.5	0.15	24	0.2	0.005	40	80	XDFN-6
NCP4623HMX048TCG	Pb-free Halide free	Active	Single	Positive	4.8	0.15	24	0.2	0.005	40	80	XDFN-6
NCP4623HMX050TCG	Pb-free Halide free	Active	Single	Positive	5	0.15	24	0.2	0.005	40	80	XDFN-6
NCP4623HMXADJTCG	Pb-free Halide free	Active	Single	Positive	Adjustable	0.15	24	0.2	0.005	40	80	XDFN-6
NCP4623HSN050T1G	Pb-free Halide free	Active	Single	Positive	5	0.15	24	0.2	0.005	40	80	SOT-23-5
NCP4623HSN100T1G	Pb-free Halide free	Active	Single	Positive	10	0.15	24	0.2	0.005	40	80	SOT-23-5
NCP4623HSN120T1G	Pb-free Halide free	Active	Single	Positive	12	0.15	24	0.2	0.005	40	80	SOT-23-5
NCP4623HSNADJT1G	Pb-free Halide free	Active	Single	Positive	Adjustable	0.15	24	0.2	0.005	40	80	SOT-23-5

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

Created on: 7/11/2015