



Product Overview

NCV7805: Linear Voltage Regulator, Positive, 1.0 A

For complete documentation, see the data sheet

Product Description

These linear voltage regulators are monolithic integrated circuits designed as fixed-voltage regulators for a wide variety of applications including local, on-card regulation. These regulators employ internal current limiting, thermal shutdown, and safe-area compensation. With adequate heatsinking they can deliver output currents in excess of 1.0 A. Although designed primarily as a fixed voltage regulator, these devices can be used with external components to obtain adjustable voltages and currents.

Features

- Output Current in Excess of 1.0 A
- No External Components Required
- Internal Thermal Overload Protection
- Internal Short Circuit Current Limiting
- Output Transistor Safe-Area Compensation
- Output Voltage Offered in 1.5%, 2% and 4% Tolerance
- Pb-Free Packages are Available

Applications

- Available in Surface Mount D 2 PAK and Standard 3-Lead Transistor Packages

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _a Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCV7805ABD2TR4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	35	2				D ² PAK-3
NCV7805BD2TG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	35	2				D ² PAK-3
NCV7805BD2TR4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	35	2				D ² PAK-3
NCV7805BDTRKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	35	2				DPAK-3
NCV7805BTG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	1	35	2				TO-220-3

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Created on: 7/11/2015