



Product Overview

NCP566: Linear Voltage Regulator, LDO, Low Voltage, Fast Transient Response, 1.5 A

For complete documentation, see the data sheet

Product Description

The NCP566 low dropout (LDO) linear voltage regulator will provide 1.5 A at a fixed output voltage. The fast loop response and low dropout voltage make this regulator ideal for applications where low voltage and good load transient response are important. Device protection includes current limit, short circuit protection, and thermal shutdown. The NCP566 is packaged in a SOT-223.

Features

- Ultra Fast Transient Response ($<1.0 \mu\text{s}$)
- Low Ground Current (1.5 mA @ $I_{\text{out}} = 1.5 \text{ A}$)
- Low Dropout Voltage (0.9 V @ $I_{\text{out}} = 1.5 \text{ A}$)
- Low Noise (37 μV_{rms})
- 1.2 V, 1.8 V, 2.5 V Fixed Output Versions. Other Fixed Voltages Available on Request
- Current Limit Protection
- Thermal Shutdown Protection
- These are Pb-Free Devices

Applications

- Servers
- ASIC Power Supplies
- Post Regulation for Power Supplies
- Constant Current Source
- DTV

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
NCP566ST12T3G	Pb-free Halide free	Active	Single	Positive	1.2	1.5	9	0.9				SOT-223-4 / TO-261-4
NCP566ST18T3G	Pb-free Halide free	Active	Single	Positive	1.8	1.5	9	0.9				SOT-223-4 / TO-261-4
NCP566ST25T3G	Pb-free Halide free	Active	Single	Positive	2.5	1.5	9	0.9				SOT-223-4 / TO-261-4

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

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