



## Product Overview

### NCP5662: Linear Voltage Regulator, LDO, Fast Response, 2.0 A, with Enable

[For complete documentation, see the data sheet](#)

#### Product Description

The NCP5662 is a high performance, low dropout (LDO) linear voltage regulator designed for high power applications that require up to 2.0 A current. It is offered in both fixed and adjustable output versions. With output voltages as low as 0.9 V and ultra-fast response times for load transients, the NCP5662 also provides additional features such as Enable and Error Flag (for the fixed output version), increasing the utility of this device. A thermally robust, 5 pin D2Pak, combined with an architecture that offers low ground current (independent of load), provides for a superior high-current LDO solution.

#### Features

- UltraFast Transient Response (Settling Time: 1 - 3  $\mu$ s)
- Low Noise Without Bypass Capacitor (26  $\mu$ Vrms)
- Low Ground Current Independent of Load (3.0 mA Maximum)
- Fixed/Adjustable Output Voltage Versions
- Enable Function
- Error Flag (Fixed Output Version)
- Current Limit Protection
- Thermal Shutdown Protection (160°C)
- 0.9 V Reference Voltage for Ultra-Low Output Operation
- Power Supply Rejection Ratio > 65 dB

#### Applications

- Servers and Networking Systems
- Gaming and STB Modules
- Automotive

## Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O</sub> Typ (A)	V <sub>I</sub> Max (V)	V <sub>DO</sub> Typ (V)	I <sub>q</sub> Typ (mA)	PSRR (dB)	Noise (μV <sub>rms</sub> )	Package Type
NCP5662DS12R4G	Pb-free Halide free	Active	Single	Positive	1.2	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DS15R4G	Pb-free Halide free	Active	Single	Positive	1.5	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DS18R4G	Pb-free Halide free	Active	Single	Positive	1.8	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DS25R4G	Pb-free Halide free	Active	Single	Positive	2.5	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DS28R4G	Pb-free Halide free	Active	Single	Positive	2.8	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DS30R4G	Pb-free Halide free	Active	Single	Positive	3	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DS33R4G	Pb-free Halide free	Active	Single	Positive	3.3	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662DSADJR4G	Pb-free Halide free	Active	Single	Positive	Adjustable	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCP5662MN15R2G	Pb-free Halide free	Active	Single	Positive	1.5	2	9	1	1.3	65	26	DFN-8
NCP5662MN33R2G	Pb-free Halide free	Active	Single	Positive	3.3	2	9	1	1.3	65	26	DFN-8
NCP5662MNADJR2G	Pb-free Halide free	Active	Single	Positive	Adjustable	2	9	1	1.3	65	26	DFN-8
NCV5662DS15R4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	1.5	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5
NCV5662DSADJR4G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	Adjustable	2	9	1	1.3	65	26	D <sup>2</sup> PAK-5

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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