

NCP5663

LDO Regulator, 3 A, Low Noise, with Enable

Product Overview

For complete documentation, see the data sheet.

The NCP5663 is a high performance, low dropout (LDO) linear voltage regulator designed for high power applications that require up to 3.0 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 NCP5663 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 us)
 - Low Noise Without Bypass Capacitor (28 uVrms)
 - 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 Protection
 - 0.9 V Reference Voltage for UltraLow Output Operation
 - Power Supply Rejection Ratio > 65 dB
- For more features, see the data sheet

Applications

- Networking Equipment
- Servers
- Game Boxes
- Set Top Boxes

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Min (V)	V _I Max (V)	V _{DO} Typ (V)	I _g Typ (mA)	PSRR (dB)	Noise (μV _r ms)	Enable	PowerGood	Application	Package Type
NCP5663DS15R4G	0.7277		Active	Single	Positive	1.5	3	2	9	1	1.3	65	28	Yes	Yes		D ² P AK-5
NCP5663DSADJR4G	0.7277		Active	Single	Positive	Adj	3	2	9	1	1.3	65	28	Yes	No		D ² P AK-5