

## Product Overview

### NCP135: CMOS Linear Voltage Regulator (LDO) with Bias Rail, 500 mA Very Low Dropout

For complete documentation, see the data sheet.

NCP135 is a 500 mA LDO equipped with NMOS pass transistor and a separate bias supply voltage ( $V_{BIAS}$ ). The device provides very stable, accurate output voltage with low noise suitable for space constrained, noise sensitive applications. In order to optimize performance for battery operated portable applications, the NCP135 features low  $I_Q$  consumption. The NCP135 is offered in WDFN6 2 mm x 2 mm package.

#### Features

- Ultra-Low Dropout of Typ. 53mV
- 0.4V Fixed Output Voltage option
- Guaranteed Output Current from 0mA to 500mA
- 0.5% Typical Output Voltage Accuracy
- Output Active Discharge option available
- Output Current in Excess of 500mA

#### Benefits

- Allows to save power and operates with very low  $V_{in-Vout}$  voltage.
- Best choice for 0.4V applications
- Very good choice for high current applications
- Perfect fit for POL applications

#### Applications

- Battery - powered and Portable Equipment
- Image sensor applications

#### End Products

- Cameras, Camera Modules

### Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	$V_O$ (V)	$I_Q$ Typ (A)	$V_I$ Min (V)	$V_I$ Max (V)	$V_{DO}$ Typ (V)	$I_Q$ Typ (mA)	PSRR (dB)	Noise ( $\mu V_{rms}$ )	Enable	Power Good	Package Type
NCP135AMT040TBG	Pb-free Halide free	Active	Single	Positive	0.4	0.5	$V_{out+Vdo}$	5.5	0.053	0.035	90	28.7	Yes	No	WDFN-6
NCP135BMT040TBG	Pb-free Halide free	Active	Single	Positive	0.4	0.5	$V_{out+Vdo}$	5.5	0.053	0.035	90	28.7	Yes	No	WDFN-6

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