



## Product Overview

### NCV33275: Linear Voltage Regulator, LDO, 300 mA

For complete documentation, see the data sheet

#### Product Description

The MC33275 series are micropower low dropout (LDO) linear voltage regulators available in a wide variety of output voltages as well as packages, DPAK, SOT-223, and SOP-8 surface mount packages. These devices feature a very low quiescent current and are capable of supplying output currents up to 300 mA. Internal current and thermal limiting protection are provided by the presence of a short circuit at the output and an internal thermal shutdown circuit.

The MC33275 is available as a MC33375 which includes an On/Off control.

Due to the low input-to-output voltage differential and bias current specifications, these devices are ideally suited for battery powered computer, consumer, and industrial equipment where an extension of useful battery life is desirable.

#### Features

- Low Quiescent Current (125  $\mu$ A)
- Low Input-to-Output Voltage Differential of 25 mV at  $I_O = 10$  mA, and 260 mV at  $I_O = 300$  mA
- Extremely Tight Line and Load Regulation
- Stable with Output Capacitance of only 0.33  $\mu$ F for 2.5 V Output Voltage
- Internal Current and Thermal Limiting

#### Applications

- Battery Powered Consumer Products
- HandHeld Instruments
- Camcorders and Cameras

#### 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 ( $\mu$ V <sub>rms</sub> )	Package Type
NCV33275ST3.3T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.3	13	0.26	0.125	75	46	SOT-223-4 / TO-261-4
NCV33275ST5.0T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.3	13	0.26	0.125	75	46	SOT-223-4 / TO-261-4

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

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