

## Product Overview

### CAT6243: Linear Voltage Regulator, CMOS LDO, Adjustable Output, 1.0 A

For complete documentation, see the data sheet

The CAT6243 is a low dropout CMOS voltage regulator providing up to 1000 mA of output current with fast response to load current and line voltage changes. CAT6243 offers a user adjustable output voltage from 0.8 V to 5.0 V and its low quiescent current make CAT6243 ideal for energy conscious designs. CAT6243 is packaged in a space saving 3 mm x 3 mm WDFN-6 package with a power pad for heat sinking to the PCB.

#### Features

- 2.0% Output Voltage Accuracy Over Temperature
- Current Limit and Thermal Protection
- 4 and 5 Lead DPAK-5 and 3 mm x 3 mm WDFN-6 Power Packages
- Guaranteed 1000 mA Continuous Output Current
- $V_{OUT}$ : 0.8 V to 5.0 V
- Dropout Voltage of 350 mV Typical at 1000 mA
- No-load Ground Current of 70  $\mu$ A Typical
- Full-load Ground Current of 140  $\mu$ A Typical
- Zero Current Shutdown Mode
- Under Voltage Lockout

For more features, see the data sheet

#### Benefits

- Accurate and stable output
- Safe to use
- Small footprint

#### Applications

- DSP Core and I/O Voltages
- FPGAs, ASICs
- PDAs, Mobile Phones, GPS
- Camcorders and Cameras
- Hard Disk Drives

#### 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
CAT6243-ADJCMT5T	Pb-free	Active	Single	Positive	0.8, 1.2, 2.5, 3.3, 5.5	1	5.5	0.25	0.14	67	45	WDFN-6
	Halide free											
CAT6243-ADJMT5T3	Pb-free	Active	Single	Positive	0.8, 1.2, 2.5, 3.3, 5.5	1	5.5	0.25	0.14	67	45	WDFN-6
	Halide free											
CAT6243DCADJ-RKG	Pb-free	Active	Single	Positive	0.8, 1.2, 2.5, 3.3, 5.5	1	5.5	0.25	0.14	67	45	DPAK-5
	Halide free											

## Application Diagram

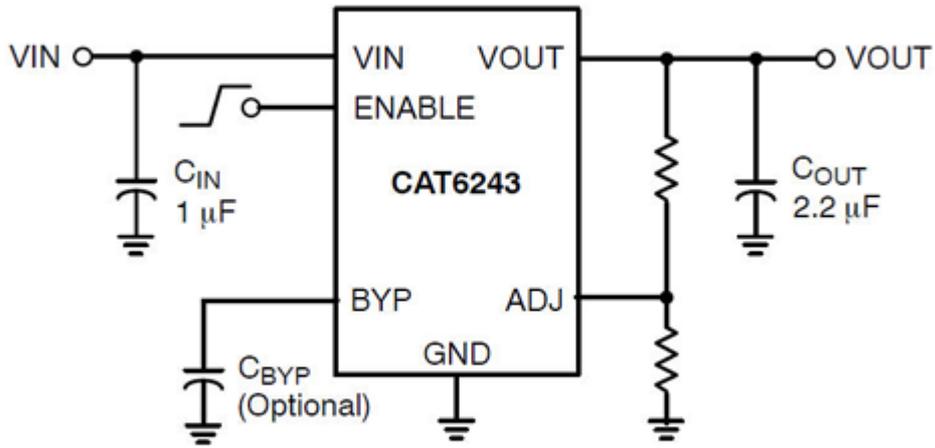


Figure 1. Application Schematic

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