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the output voltage with the feedback loop from CATHODE and REF.

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important “building blocks “ of analog circuits, and are typically used in creating most analog IC designs. Part 1 shows the reader how current sources are created, how they can be optimized, and how they can be utilized by the OEM circuit designer.

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implementations of independent, ideal sources. They provide currents or voltages that are independent on load impedance, temperature variations and supply voltage.

1. Current and voltage

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references - utcluj.ro

A current source is an electronic circuit that delivers or absorbs an electric current which is independent of the voltage across it. A current source is the dual of a voltage source. The term current sink is sometimes used

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for sources fed from a negative voltage supply. Figure 1 shows the schematic symbol for an ideal current source driving a resistive load. There are two types. An independent current source delivers a constant current. A dependent current source

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delivers a current which is pro

Current source - Wikipedia
current source as a reference.

The current source shown in Figure 12 can be programmed to any value above the $100\mu\text{A}$ reference current. It has

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compliance all the way to the negative power supply rail. The $100\mu\text{A}$ reference forces a voltage of $100\mu\text{A} \cdot R_1$ at the non-inverting input of the op amp. When using a Difet® op

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circuits, and are typically used in creating most analog IC designs.

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With a 1% accurate device at room temperature, the output

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voltage is 5.00V plus or minus 50 mV. If the current through the device varies from 1 mA to 15 mA, the voltage drop is guaranteed to change a maximum of an additional 10 mV. Figure 3 shows a typical circuit.

FIGURE 3. 1% accurate, 5V

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aanbrengen, en om advertenties weer te geven.

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A voltage source is the dual of a current source. Real-world

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sources of electrical energy, such as batteries and generators, can be modeled for analysis purposes as a combination of an ideal voltage source and additional combinations of impedance elements. A schematic diagram of a voltage source, V , driving a

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resistor, R, and creating a current
Reference For Electronics

Voltage source - Wikipedia

Current Source Reference: 200mA
Single Resistor Low Dropout
Linear Regulator-\$1.40
(LT3082EDD#PBF) 6: LTM8040: 4:

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36: 35mA to 1000mA: 2.6m:

Constant Current Constant Voltage, Output Current Limit:

36V, 1A μ Module LED

Driver-\$7.45 (LTM8040EV#PBF)

7: LT3085: 1.2: 36: 0.5mA to

500mA: 300 μ : Current Source

Reference: Adjustable 500mA

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Current Sources | Analog Devices

This book does a nice job of covering the history of using transistors as related to current sources and voltage references

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(and the connection between these two -- a current mirror as part of a bandgap reference.) The book is nicely laid out and provides abundant tables and examples and discussions, throughout the text.

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Figure 1 is an example Widlar current source using bipolar transistors, where the emitter

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resistor R 2 is connected to the output transistor Q 2, and has the effect of reducing the current in Q 2 relative to Q 1. The key to this circuit is that the voltage drop across the resistor R 2 subtracts from the base-emitter voltage of transistor Q 2, thereby turning

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this transistor off compared to ...

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