

50 mA, 100 mA and 150 mA CMOS LDOs with Shutdown and Reference Bypass, Low Dropout (LDO) Regulators .1mA w/Shtdn & RefB

Manufacturers	Microchip Technology, Inc
Package/Case	SOT-23-5
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for TC1015-1.8VCT713 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The TC1014, TC1015, and TC1185 are high accuracy (typically $\pm 0.5\%$) CMOS upgrades for older (bipolar) low dropout regulators such as the LP2980. Designed specifically for battery-operated systems, the devices' CMOS construction eliminates wasted ground current, significantly extending battery life. Total supply current is typically $50\mu\text{A}$ at full load (20 to 60 times lower than in bipolar regulators). Key features for the devices include ultra low-noise operation (plus optional Bypass input), fast response to step changes in load, and very low dropout voltage, typically 85mV (TC1014), 180mV (TC1015), and 270mV (TC1185) at full load. Supply current is reduced to $0.5\mu\text{A}$ (max) and VOUT falls to zero when the shutdown input is low. The devices also incorporate both over-temperature and over-current protection. The TC1014, TC1015, and TC1185 are stable with an output capacitor of only $1\mu\text{F}$ and have a maximum output current of 50mA , 100mA , and 150mA , respectively. For higher output versions, see the TC1107, TC1108, and TC1173>

Features

Extremely Low Supply Current (50 μ A typical)

Very Low Dropout Voltage

Minimum 50mA, 100mA, and 150mA Output Current (TC1014, TC1015, and TC1185, Respectively)

High Output Voltage Accuracy

Standard or Custom Output Voltages

Power-Saving Shutdown Mode

Reference Bypass Input for Ultra-Low-Noise Operation

Over-Current and Over-Temperature Protection

Pin Compatible Upgrades for Bipolar Regulators



Related Products



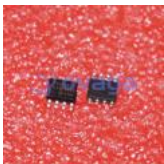
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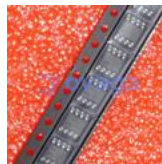
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