

Title (en)

Voltage regulator having inverse adaptive control means

Title (de)

Spannungsregler mit adaptiven Umkehrregelungsmitteln

Title (fr)

Régulateur de tension avec moyens de commande inverse adaptatives

Publication

EP 1624357 A1 20060208 (EN)

Application

EP 04018702 A 20040806

Priority

EP 04018702 A 20040806

Abstract (en)

A low drop-out (LDO) voltage regulator that has high a PSRR (Power Supply Ripple Rejection) performance and a high load regulation with low current consumption is disclosed. The voltage regulator does not require any high gain error amplifier that may cause instability in the voltage regulator. A novel voltage-controlled current-feedback means (90) is presented that generates an inverse phase signal and compensation voltage for a ripple noise and dropout voltage, respectively. The voltage-controlled current-feedback means (90) generates a negative voltage slope with regard to the power supply voltage, which can cancel the ripple noise at the output terminal. Said means creates a positive coefficient voltage with regard to the load current, which compensates the voltage drop caused by parasitic resistances.

IPC 8 full level

G05F 1/575 (2006.01)

CPC (source: EP)

G05F 1/575 (2013.01)

Citation (search report)

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Designated contracting state (EPC)

BE DE FI FR GB

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