



CX65XXAX

50V/350mA/2.1uA I_Q /Fast Transient
Low-Dropout Linear Voltage Regulator

■ Description

The CX65XXAX series is a high input voltage (50V), low quiescent current (2.1uA), lowdropout linear regulator (LDO) able to provide 350mA load current. The CX65XXAX family LDO offers EN pin to enable and disable the LDO output, EN pin can take 50V input voltage. The LDO features very fast response against line voltage transient and load current transient, and ensures no overshoot voltage during the LDO start up and short circuit recovery. The device features integrated short-circuit and thermal shutdown protection. The device is available with fixed output voltages of 1.8V, 3.0V, 3.3V and 5.0V, and available in SOT23 and SOT89 packages.

■ Application

- Battery-powered equipment
- Smoke detector and sensor
- Micro controller Applications
- Home Appliance

■ Features

- Low Quiescent Current: 2.1uA
- High Input Voltage Rating: Up to 55V
- High Output Current: 350mA
- High PSRR: 85dB at 1KHz
- Low Dropout Voltage:
35mV@10mA
350mV@100mA
- Fixed Output Voltages:
1.8V, 3.0V, 3.3V and 5.0V
- High-accuracy Output Voltage: $\pm 2\%$
- Fast Transient Response
- Integrated Short-Circuit Protection
- Enable pin is available
- Integrated Thermal Protection

■ Application Circuits

