

XC6423 Series

Ultra Small 300mA Dual High Speed LDO Regulator with Inrush Current Prevention

■ GENERAL DESCRIPTION

The XC6423 series is an ultra small CMOS dual LDO regulator, with 300mA output current capability. The series features high accuracy of 1% output voltages, high ripple rejection and low dropout voltage.

The series is available in LGA-6A01 (1.2mm × 1.2mm × h0.4mm) which features ultra small and high heat dissipation. The series is suited for high density board installation.

Each regulator can be turned off independently to be in stand-by mode by controlling EN pin. In this state, the electric charge at the output capacitor (C_L) is discharged via the internal auto-discharge switch, and as a result the V_{OUT} voltage quickly returns to the V_{SS} level.

The output stabilization capacitor (C_L) is also compatible with low ESR ceramic capacitors.

The high level of output stability is maintained even during frequent load fluctuations, due to the excellent transient response performance.

Over current protection circuit and over heat protection circuit are integrated, these circuits start working when output current reaches current limit or junction temperature reaches temperature limit.

The two regulators are completely isolated so that a cross talk during load fluctuations is minimized.