## XC62FP Series

## Positive Voltage Regulators

## DETAILS

## General Description

The XC62FP series is a group of positive voltage output, three-pin regulators, that provide a high current even when the input/output voltage differential is small. Low power con sumption and high accuracy is achieved through CMOS and laser trimming technologies. The XC62FP consists of a high-precision voltage reference, an error correction circuit, and a current limited output driver. Transient response to load variations have improved in comparison to the existing series.
SOT-23 (150mW) and SOT-89 (500mW) packages are available.

Pin Configuration


Features
Max. output current: 250mA
(within max. power dissipation, VOUT $=5.0 \mathrm{~V}$ )
Output voltage: 2.0 V to 6.0 V in 0.1 V increments
(1.1V to 1.9 V for custom products)

Highly accurate: Output voltage $\pm 2 \%$
( $\pm 1 \%$ for semi-custom products)
Low power consumption: Typ. $2.0 \mu \mathrm{~A}$ at VOUT $=5.0 \mathrm{~V}$
Output voltage temperature coefficient: 0.1 \% / V: Typ. $\pm 100 \mathrm{ppm} /{ }^{\circ} \mathrm{C}$
Line regulation: Typ. 0.2\% / V
Dropout voltage:
120 mV @ 100mA (5.0V)
Ultra small package: SOT-23 (150mW) mini-mold and SOT-89 ( 500 mW ) mini-power mold *TO-92 (300mW) package also available. (order basis)

Pin Assignment

| PIN NUMBER |  | PIN | FUNCTION |
| :---: | :---: | :---: | :---: |
| SOT-23 | SOT-89 |  |  |
| 1 | 1 | VSS | Ground |
| 3 | 2 | VIN | Supply voltage input |
| 2 | 3 | VOUT | Regulated voltage output |

## Block Diagram



## Ordering Information

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$\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$
a b c def

| DESIGNATOR | DESCRIPTION | DESIGNATOR | DESCRIPTION |
| :---: | :--- | :---: | :---: |
| a | Polarity of Output Voltage : <br> $\mathrm{P}:+$ (Positive) |  | Package Type <br> $\mathrm{M}=$ SOT-23 |
| b | Output Voltage : <br> $30=3.0 \mathrm{~V}$ | e | $\mathrm{P}=$ SOT-89 |
|  | $50=5.0 \mathrm{~V}$ |  | $\mathrm{~T}=$ TO-92 |

