## XC62H Series

## Positive Voltage Regulators

## DETAILS

## Gencral Description

The XC62H series are highly precise, low power consumption, positive voltage regulators, manufactured using CMOS and laser trimming technologies. The series consists of a high precision voltage reference, an error correction circuit, and an output driver with current limitation.
By way of the CE function, with output turned off, the series enters stand-by. In the stand-by mode, power consumption is greatly reduced.
SOT-25 (150mW) and SOT-89-5 (500mW) packages are available.
In relation to the CE function, as well as the positive logic XC62HR series, a negative logic XC62HP series (custom) is also available.

## Pin Gonfiguration



## Features

Maximum Output Current: 165mA
(within Maximum power dissipation, Vout=3.0V)
Output Voltage Range: 2.0 V to 6.0 V in 0.1 V increments

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\text { ( } 1.1 \mathrm{~V} \text { to } 1.9 \mathrm{~V} \text { semi-custom ) }
$$

Highly Accurate: Setup voltage $\pm 2 \%$
( $\pm 1 \%$ for semi-custom products )
Low power consumption:
TYP $3 \mu \mathrm{~A}$ [ Vout=3.0, Output enabled ]
TYP $0.1 \mu \mathrm{~A}$ [ Output disabled ]
Output voltage temperature characteristics:
TYP $\pm 100 \mathrm{ppm} /{ }^{\circ} \mathrm{C}$
Line regulation: TYP 0.2\%/V
Ultra small package: SOT-25 (150mW) mini-mold : SOT-89-5(500mW) mini-power mold

## Pin Assignment

| PIN NUMBER |  | PIN | FUNCTION |
| :---: | :---: | :---: | :---: |
| SOT-25 | SOT-89-5 |  |  |
| 1 | 4 | (NC) | No Connection |
| 2 | 2 | VIN | Supply Voltage Input |
| 3 | 3 | CE | Chip Enable |
| 4 | 1 | VSS | Ground |
| 5 | 5 | VOUT | Regulated Output Voltage |

Block Diagram


## Ordering Information

$\mathrm{XC} 62 \mathrm{H} \times \underset{\times}{ } \times \times \times \times$
$\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$
a b c def

| DESIGNATOR | DESCRIPTION | DESIGNATOR | DESCRIPTION |
| :---: | :---: | :---: | :---: |
| a | $\begin{gathered} \text { True Logic Level at CE Pin : } \\ R=\text { Positive } \\ P=\text { Negative ( Custom ) } \\ \hline \end{gathered}$ | e | Package Type$\begin{aligned} & M=S O T-25 \\ & P=S O T-89-5 \end{aligned}$ |
| b | Output Voltage : $\begin{aligned} & 30=3.0 \mathrm{~V} \\ & 50=5.0 \mathrm{~V} \\ & \hline \end{aligned}$ |  |  |
| c | 0 | f | Device Orientation: <br> R = Embossed Tape ( Right) <br> L = Embossed Tape ( Left ) |
| d | $\begin{aligned} & \text { Output Voltage Accuracy : } \\ & \begin{array}{l} 1= \pm 1.0 \% \text { ( Semi-Custom ) } \\ 2= \pm 2.0 \% \end{array} \end{aligned}$ |  |  |

