

XC62H Series

Positive Voltage Regulators

General 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.

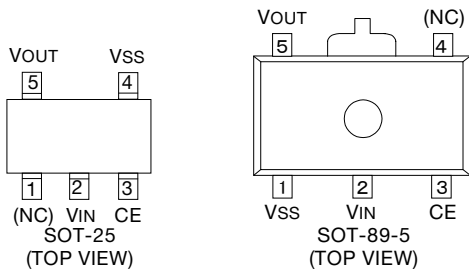
SOT-25 (150mW) and SOT-89-5 (500mW) packages are available.

In relation to the CE function, as well as the positive logic XC62HR series, a negative logic XC62HP series (custom) is also available.

Features

- Maximum Output Current:** 165mA
(within Maximum power dissipation, Vout=3.0V)
- Output Voltage Range:** 2.0V to 6.0V in 0.1V increments
(1.1V to 1.9V semi-custom)
- Highly Accurate:** Setup voltage $\pm 2\%$
($\pm 1\%$ for semi-custom products)
- Low power consumption:**
TYP $3\mu A$ [Vout=3.0, Output enabled]
TYP $0.1\mu A$ [Output disabled]
- Output voltage temperature characteristics:**
TYP $\pm 100ppm/^{\circ}C$
- Line regulation:** TYP 0.2%/V
- Ultra small package:** SOT-25 (150mW) mini-mold
: SOT-89-5(500mW) mini-power mold

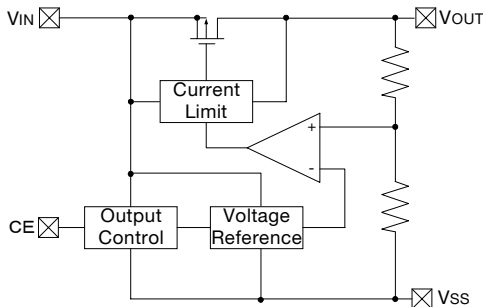
Pin Configuration



Pin Assignment

PIN NUMBER		PIN NAME	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

XC62H x x x x x x
↑ ↑ ↑ ↑ ↑ ↑
a b c d e f

DESIGNATOR	DESCRIPTION	DESIGNATOR	DESCRIPTION
a	True Logic Level at CE Pin : R = Positive P = Negative (Custom)	e	Package Type M = SOT-25 P = SOT-89-5
b	Output Voltage : 30 = 3.0V 50 = 5.0V		
c	0	f	Device Orientation : R = Embossed Tape (Right) L = Embossed Tape (Left)
d	Output Voltage Accuracy : 1 = $\pm 1.0\%$ (Semi-Custom) 2 = $\pm 2.0\%$		