

XC62G Series Positive Voltage Regulators

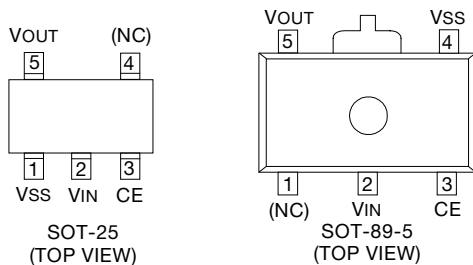
General Description

The XC62G series are highly precise, low power consumption, positive voltage regulators, manufactured using CMOS and laser trimming technologies. The series achieves high output currents with low input-output voltage differentials, and consists of a high precision voltage reference, an error correction circuit, and an output driver with current limitation. With good transient responses, output remains stable even during load changes. Also, having high ripple rejection ratios, the series can be used with low power supply noise. The CE input enables the output to be turned off, resulting in reduced power consumption. SOT-25 (150mW) and SOT-89-5 (500mW) packages are available. With regards to the CE function, as well as the positive logic XC62GR series, a negative logic XC62GP series (custom) is also available.

Features

- Maximum Output Current:** 150mA
(within Maximum power dissipation, $V_{out}=3.0V$)
- Output Voltage Range:** 2.1V to 5.0V in 0.1V increments
- Highly Accurate:** Setup voltage $\pm 2\%$
($\pm 1\%$ for semi-custom products)
- Low power consumption:**
TYP $13\mu A$ [$V_{out}=3.0V$],
TYP $23\mu A$ [$V_{out}=3.0V$ semi-custom, high-speed versions],
TYP $0.1\mu A$ [Stand-by mode]
- 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) power-mini-mold

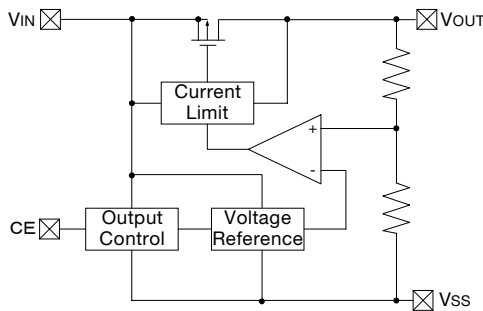
Pin Configuration



Pin Assignment

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

Block Diagram



Ordering Information

XC62G 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	f	Device Orientation : R = Embossed Tape (Right) L = Embossed Tape (Left)
c	Response : 1 = Standard 2 = High Speed (Semi-Custom)		
d	Output Voltage Accuracy : 1 = $\pm 1.0\%$ (Semi-Custom) 2 = $\pm 2.0\%$		