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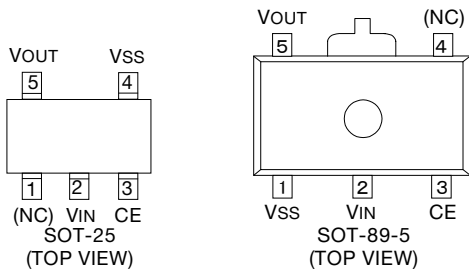
SOT-25 (150mW) and SOT-89-5 (500mW) packages are available.

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 ± 2%
                   (± 1% for semi-custom products)
Low power consumption:
 TYP 3μA [Vout=3.0, Output enabled]
 TYP 0.1μA [Output disabled]
Output voltage temperature characteristics:
 TYP± 100ppm/°C
Line regulation: TYP 0.2%/V
Ultra small package: SOT-25 (150mW) mini-mold
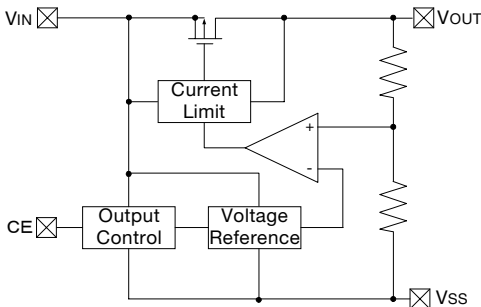   : SOT-89-5(500mW) mini-power mold

Pin Configuration

SOT-25 (TOP VIEW)

SOT-89-5 (TOP VIEW)

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| × × × ×
        ↑ ↑ ↑ ↑ ↑ ↑
        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 = ±1.0% (Semi-Custom) 2 = ±2.0%		

TOREX