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.



Block Diagram



Ordering Information

 $XC62H \times \times \times \times \times \times \times \times$

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a b c d e f

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

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 3μ A [Vout=3.0, Output enabled]
TYP 0.1μ A [Output disabled]Output voltage temperature characteristics:
TYP ± 100 ppm/°CLine regulation: TYP 0.2%/VUltra small package: SOT-25 (150mW) mini-mold
: SOT-89-5(500mW) mini-power mold

Pin Assignment

PIN NU	JMBER	PIN	ELINCTION	
SOT-25	SOT-89-5	NAME	FUNCTION	
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	