

# XC6201 Series Positive Voltage Regulators

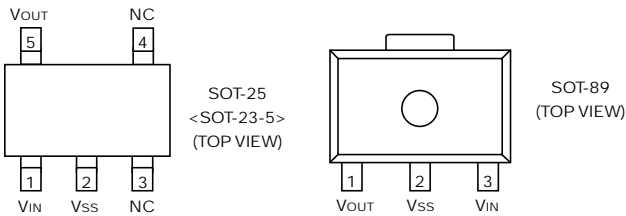
## General Description

The XC6201 series are highly precise, low power consumption, positive voltage regulators manufactured using CMOS and laser trimming technologies. The series provides large currents with a significantly small dropout voltage. The XC6201 consists of a current limiter circuit, a driver transistor, a precision reference voltage and an error amplifier. Output voltage is selectable in 0.1V steps between a voltage of 2.0V and 6.0V. SOT-25 (150mW) and SOT-89 (500mW) packages are available.

## Features

- Maximum Output Current: 250mA(TYP)
- Dropout Voltage: 0.16V @ 100mA
- Maximum Operating Voltage: 10V
- Output Voltage Range: 1.7V to 6.0V (selectable in 0.1V steps)
- Highly Accurate:  $\pm 2\%$
- Low Power Consumption: TYP 2.0  $\mu\text{A}$
- Operational Temperature Range: -40°C to 85°C
- Ultra Small Packages: SOT-25 (150mW), SOT-89 (500mW)

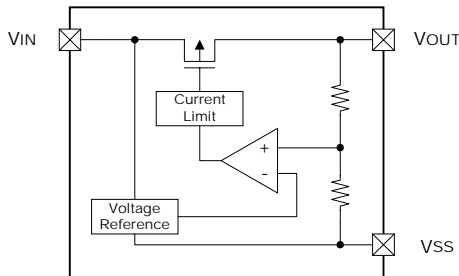
## Pin Configuration



## Pin Assignment

PIN NUMBER		PIN NAME	FUNCTION
SOT-25	SOT-89		
5	1	VOUT	Output
2	2	VSS	Ground
1	3	VIN	Power Input
3	-	(NC)	No Connection
4	-	(NC)	No Connection

## Block Diagram



## Ordering Information

XC6201, P, c d e f

a b

DESIGNATOR	SYMBOL	DESCRIPTION	DESIGNATOR	SYMBOL	DESCRIPTION
a	1	Indicates the product number	d	1/2	Output Voltage Accuracy e.g. 1 : $\pm 1.0\%$ 2 : $\pm 2.0\%$
b	P	Type of regulator 3- pin	e	Package Type	
c	17-60	Output Voltage e.g. 30 : 3.0V 50 : 5.0V		M	M=SOT-25
			P	P=SOT-89	
			Device Orientation		
f	R	Embossed Tape:standard loading			
	L	Embossed Tape:reverse loading			