

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)

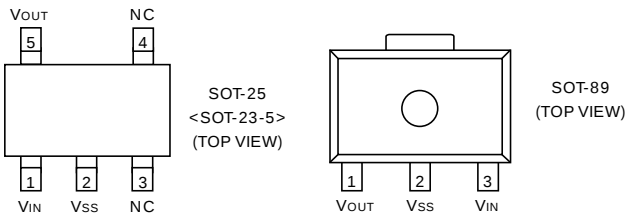
Highly Accurate: $\pm 2\%$

Low Power Consumption: TYP 2.0 μA

Operational Temperature Range: -40°C to 85°C

Ultra Small Packages: SOT-25 (150mW), SOT-89 (500mW)

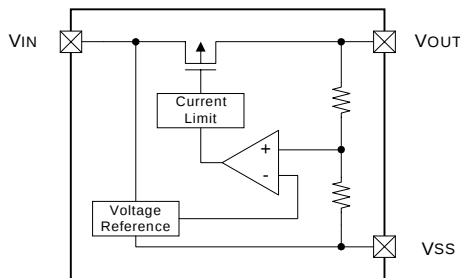
Pin Configuration



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
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 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	
				M	M=SOT-25
				P	P=SOT-89
c	17~60	Output Voltage e.g. 30 : 3.0V 50 : 5.0V	f	Device Orientation	
				R	Embossed Tape:standard loading
				L	Embossed Tape:reverse loading