

Preliminary

- ◆ CMOS Low Power Consumption
- ◆ Dropout Voltage : 300mV @ 100mA
- ◆ Output Current : up to 150mA
- ◆ Highly Accurate : $\pm 2\%$
- ◆ Output Voltage Range : 2.0V to 6.0V
- ◆ SOT-25 / SOT-89-3 Package

Applications

- Mobile phones
- Cordless phones
- Cameras, video recorders
- Portable games
- Portable AV equipment
- Reference voltage
- Battery powered equipment

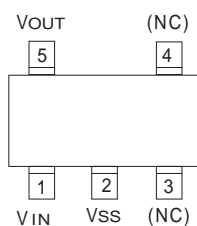
General Description

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.

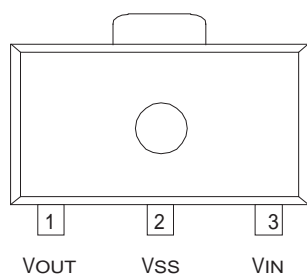
Features

Maximum Output Current : 150mA
Dropout Voltage : 300mV @ 100mA
Maximum Operating Voltage : 10V
Output Voltage Range : 2.0V to 6.0V (selectable in 0.1V steps)
Highly Accurate : $\pm 2\%$
Low Power Consumption : TYP 3.0 μ A
Operational Temperature Range : -40°C to 85°C
Ultra Small Packages : SOT-25 (150mW), SOT-89 (500mW)

Pin Configuration



SOT-25
(TOP VIEW)



SOT - 89
(TOP VIEW)

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