

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

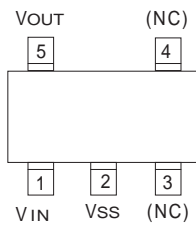
■ General Description

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.

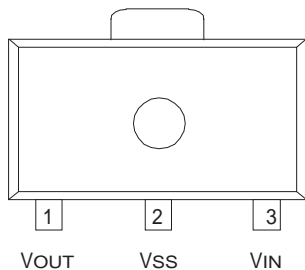
■ Features

- 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