

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

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.

Applications

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

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)

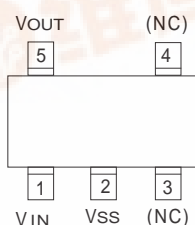
Highly Accurate : $\pm 2\%$

Low Power Consumption : TYP 3.0 μ A

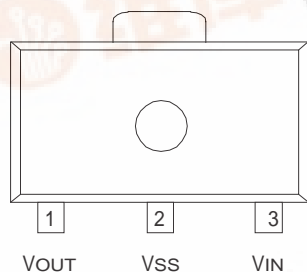
Operational Temperature Range : -40°C to 85°C

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 |