

### Preliminary

- ◆ CMOS Low Power Consumption : 10  $\mu$ A Max
- ◆ Dropout Voltage : 0.735V @ 400mA  
 $V_{OUT} = > 2.4V$  with a  $3.3V \pm 5\%$  input (2.5V)
- ◆ Maximum Output Current : more than 400mA (3.3V)
- ◆ Highly Accurate :  $\pm 2\%$
- ◆ Current Limiter Circuit Built-In (Foldback)
- ◆ SOT-89 Package

#### ■ General Description

The XC6203 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 XC6203 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. The IC benefits from output current control & output pin short protection as a result of the built-in current limiter (foldback) circuit. SOT-89 (500mW) package.

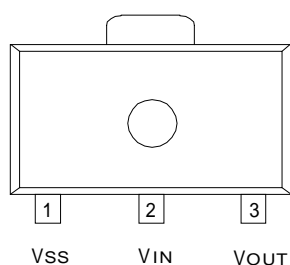
#### ■ Applications

- Battery Powered Equipment
- Reference Voltage Sources
- Cameras, Video Cameras
- CD-ROMs, DVDs
- Palmtops
- Portable Audio Video Equipment
- Portable Audio Video Equipment

#### ■ Features

**Maximum Output Current** : 400mA  
**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 8.0  $\mu$ A  
**Output Voltage Temp. Characteristics** : TYP 100ppm/°C  
**Operational Temperature Range** : -40°C to 85°C  
**Ultra Small Package** : SOT-89

#### ■ Pin Configuration



SOT - 89  
(TOP VIEW)

#### ■ Pin Assignment

PIN NUMBER	PIN NAME	FUNCTION
1	VSS	Ground
2	VIN	Power Input
3	VOUT	Output