Preliminary

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

■ Applications

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

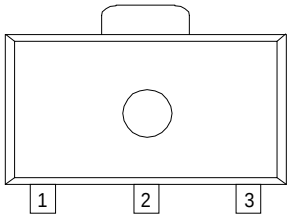
■ General Description

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.

■ Features

Maximum Output Current : 400mA
Maximum Operating Voltage : 10V
Output Voltage Range : 2.0V to 6.0V (selectable in 0.1V steps)
Highly Accurate : ± 2%
Low Power Consumption : TYP 8.0 μA
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