

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 XC6203P 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 1.8V 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-223 package.

Features

Maximum Output Current: 400mA

Maximum Operating Voltage: 10V

Output Voltage Range: 1.8V to 6.0V (selectable in 0.1V steps)

Highly Accurate: $\pm 2\%$

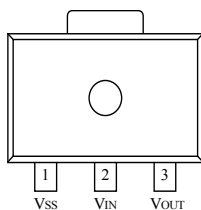
Low Power Consumption: TYP 8.0 μA

Output Voltage Temp. Characteristics: TYP 100ppm/ $^{\circ}\text{C}$

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

Small Package: SOT-223

Pin Configuration



Preliminary

SOT-223

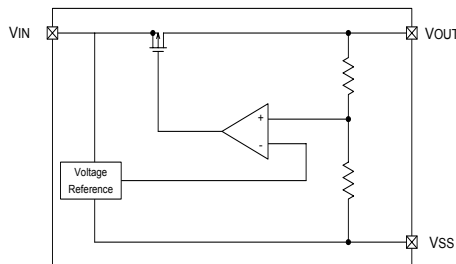
(TOP VIEW)

Pin Assignment

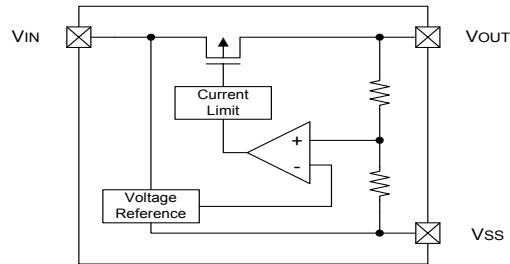
PIN NUMBER	PIN NAME	FUNCTION
1	VSS	Ground
2	VIN	Power Input
3	VOUT	Output

Block Diagram

(1) XC6203E



(2) XC6203P



Ordering Information

XC6203①②③④⑤⑥

DESIGNATOR	SYMBOL	DESCRIPTION	DESIGNATOR	SYMBOL	DESCRIPTION
①	Type of Regulator		⑤	F	Package Type SOT-223 (1reel=1000pcs.)
	P	Current limiter circuit built-in			
	E	No current limiter circuit built-in			
② ③ ④	18 ~ 60 & A	e.g. 252: 2.5V, Accuracy±2% 332: 3.3V, Accuracy±2% 28A: 2.85V, Accuracy±2%*	⑥	Device Orientation	
④	2	Output Voltage Accuracy ±2%		R	Embossed Tape: Standard
				L	Embossed Tape: Reverse

Note*: Ourput Voltage in 50mV steps is applied only for 2.85V type.