

(Large Current) Positive Voltage Regulators

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 tran sistor, 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)

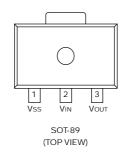
Highly Accurate: ± 2%

Low Power Consumption: TYP 8.0 μ A

Output Voltage Temp. Characteristics: TYP 100ppm/°C Operational Temperature Range: -40°C to 85°C

Ultra Small Package: SOT-89

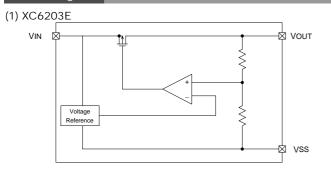
Pin Configuration

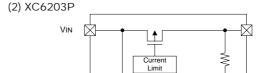


Pin Assignment

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

Block Diagram





Ordering Information

XC6203

AC0203					
DESIGNATOR	SYMBOL	DESCRIPTION	DESIGNATOR	SYMBOL	DESCRIPTION
	Type of Reg	gulator		P	
	Р	Current limiter circuit built-in			Package Type
	E	No current limiter circuit built-in			
	18 ~ 60 & A	e.g. 252 : 2.5V, Accuracy ±2% 332 : 3.3V, Accuracy ±2% 28A : 2.85V, Accuracy ±2*		P	SOT-89
		Output Voltage Accuracy		Device Orientation	
2		±2%		R	Orientation of Device:Right
				L	Orientation of Device:Left

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



Vout

Vss