

Positive Voltage Regulators

General Description

The XC62FP series is a group of positive voltage output, three-pin regulators, that provide a high current even when the input/output voltage differential is small. Low power consumption and high accuracy is achieved through CMOS and laser trimming technologies. The XC62FP consists of a high-precision voltage reference, an error correction circuit, and a current limited output driver. Transient response to load variations have improved in comparison to the existing series.

SOT-23 (150mW) and SOT-89 (500mW) packages are available.

Features

Max. output current: 250mA

(within max. power dissipation, VOUT = 5.0V) **Output voltage:** 2.0V to 6.0V in 0.1V increments

(1.1 V to 1.9 V for custom products) **Highly accurate:** Output voltage ±2%
(±1% for semi-custom products)

Low power consumption: Typ. $2.0\mu A$ at VOUT = 5.0V

Output voltage temperature coefficient: 0.1% /V: Typ. ±100ppm/°C

Line regulation: Typ. 0.2% / V

Dropout voltage:

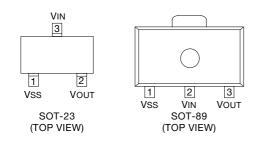
120mV @ 100mA (5.0V)

Ultra small package: SOT-23 (150mW) mini-mold and

SOT-89 (500mW) mini-power mold *TO-92 (300mW) package also available.

(order basis)

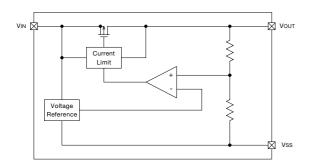
Pin Configuration



Pin Assignment

PIN NU	PIN NUMBER		FUNCTION	
SOT-23	SOT-89	NAME	FUNCTION	
1	1	Vss	Ground	
3	2	VIN	Supply voltage input	
2	3	Vout	Regulated voltage output	

Block Diagram



Ordering Information

 $XC62FP_{!}\times\times\times\times\times$

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DESIGNATOR	DESCRIPTION	DESIGNATOR	DESCRIPTION
а	Polarity of Output Voltage : P: + (Positive)	е	Package Type M = SOT-23 P = SOT-89 T = TO-92
b	Output Voltage: 30 = 3.0V 50 = 5.0V		
С	Temperature Coefficients: 0 = ± 100ppm (typical)		Device Orientation : R = Embossed Tape (Right)
d	Output Voltage Accuracy : d 1 = ± 1.0% (Semi-Custom) 2 = ± 2.0%		L = Embossed Tape (Left) H = PaperTape (TO-92) B = Bag (TO-92)