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# XC62FP Series

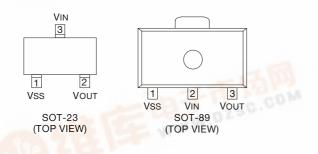
**Positive Voltage Regulators** 

#### **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.

#### **Pin Configuration**



#### 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. 2.0µA 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)					

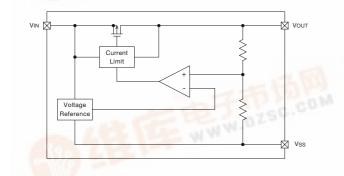
### **Pin Assignment**

	PIN NU	JMBER	PIN FUNCTION				
	SOT-23	SOT-89	NAME	FUNCTION			
	9.17	1	Vss	Ground			
-	3	2	VIN	Supply voltage input			
	2	3	Vout	Regulated voltage output			

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## **Block Diagram**



#### **Ordering Information**

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