

XC62KN Series

Negative Voltage Regulators

General Description

The XC62K series are highly precise, low power consumption, negative voltage regulators, manufactured using CMOS and laser trimming technologies. The series achieves high output currents with small input-output voltage differentials, and consists of a high precision voltage reference, an error correction circuit, and an output driver with current limitation. SOT-23 (150mW) and SOT-89 (500mW) packages are available

Features

Low Dropout Voltage:

120mV @50mA (-5.0V)

Maximum Output Current: 100mA

(within Maximum power dissipation, Vout= -5.0V)

Output Voltage: -2.1V to -6.0V in 0.1V increments

-5.0V, -4.0V, -3.0V, -2.5V standard

(all other voltages are semi-custom)

Highly Accurate: Setup voltage accuracy ± 2%

(± 1% for semi-custom products)

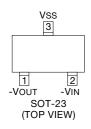
Low power consumption: TYP $3.0\mu A$ [Vout= -5.0V] Output voltage temperature characteristics: TYP± $100ppm/^{\circ}C$

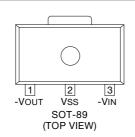
Line regulation: TYP 0.1 %/V

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

: SOT-89 (500mW) mini-power mold

Pin Configuration

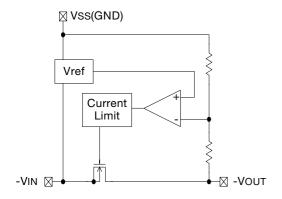




Pin Assignment

PIN NUMBER		PIN	FUNCTION	
SOT-23	SOT-89	NAME	FUNCTION	
2	3	-VIN	Power Supply Input	
3	2	Vss	Ground	
1	1	-Vout	Output	

Block Diagram



Ordering Information

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DESIGNATOR	DESCRIPTION	DESIGNATOR	DESCRIPTION
a	Polarity of Output Voltage N = Negative		Package Type
b	Outut Voltage 30 = 3.0V 50 = 5.0V	е	M = SOT-23 P = SOT-89
С	Temperaure Characteristics 0 = ±100ppm/°C (typical)		Device Orientation R = Embossed Tape
d	Accuracy $1 = \pm 1.0\%$ (Semi-custom products) $2 = \pm 2.0\%$	f	(Orientation of Device : Right) L = Embossed Tape (Orientation of Device : Left)