

Description

The MIK62FP 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 programmable fuse technologies. Output voltage: 1.5V to 6.0V in 0.1V increments. The MIK62FP 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.

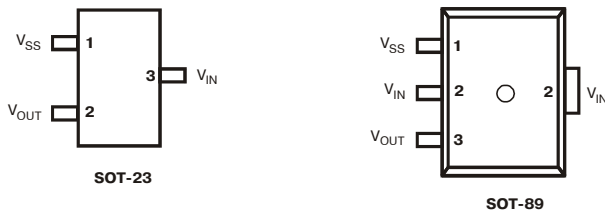
Features

- Maximum output current: 250mA
- Highly accurate: Output voltage +/- 2%
- CMOS low power consumption.
- Small input/output differential: 0.4V at 160mA

Applications

- Battery Powered Equipment
- Palmtops
- Portable Cameras and Video Recorders
- Reference Voltage Sources

Pin connection



Absolute Maximum Ratings

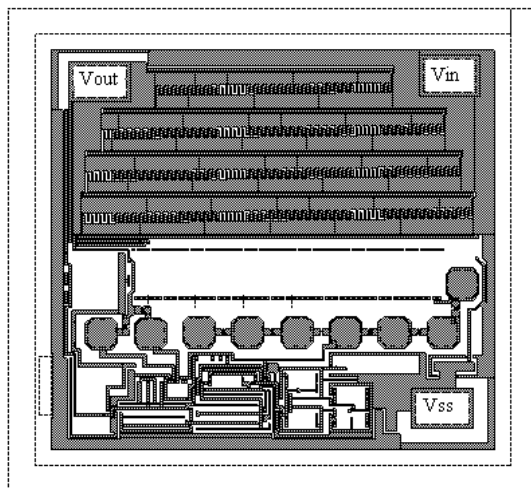
Symbol	Parameter	Maximum	Units
V _{IN}	Input Voltage	12	V
I _{OUT}	Output Current	500	mA
V _{OUT}	Output Voltage	V _{SS} -0.3 to V _{IN} 0.3	V
Pd	Continuous Total Power Dissipation	SOT-23: 150 SOT-89: 500	mW
Topr	Operating Ambient Temperature	-30 to 80	°C
Tstg	Storage temperature	-40 to 125	°C

Electrical Characteristics

(T_a = 25°C, V_{IN} = V_{OUT}; unless otherwise noted)

Parameter	Conditions	Min	Typ	Max	Units
Output Voltage	I _o = 40mA, V _{IN} = V _{OUT} + 1V	2.0		1.0	
Line Regulation $\Delta V_{OUT} / \Delta V_{IN} \cdot V_{OUT}$	I _o = 40mA, V _{OUT} + 1V < V _{IN} < 10V		0.2	0.3	%/V
Load Regulation	V _{IN} = 1mA < I _o < 80mA		0.2	0.3	%/mA
Current consumption	V _{IN} = V _{OUT} + 1V		1.0	2.9	μA
Dropout Voltage	V _{OUT} > 2.5V V _{OUT} < 2.5		0.4	0.7	V
			0.5	0.8	

Pad location MIK62FP



Chip Size: 1.3 x 1.2 mm

Pad Location Coordinates (the center of pads)

N		Pad Name	Coordinates (μm)	
SOT-23	SOT-89		X	Y
1	1	V _{SS}	1066	206.5
3	2	V _{IN}	1084	1032.5
2	3	V _{OUT}	224.5	1016.5