

High Output Current LDO Regulator , High PSRR , Low Dropout, ME6207 Series

General Description

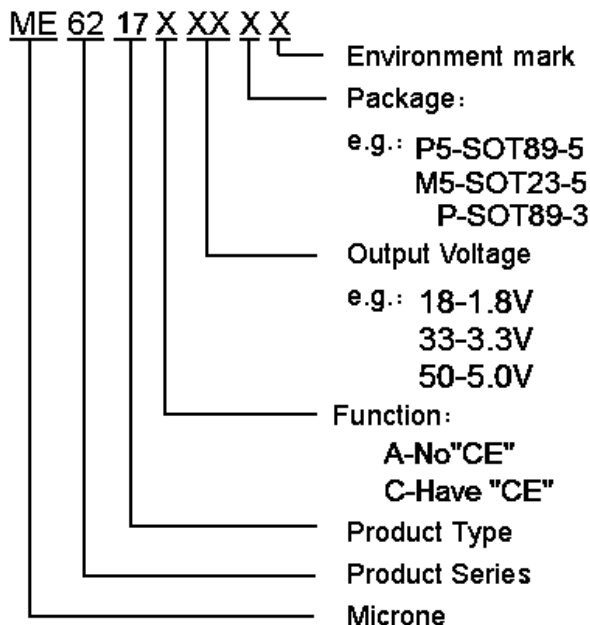
The ME6217 Series is a positive voltage regulator with a low dropout voltage, high output voltage accuracy, and low current consumption developed based on CMOS technology.

A built-in low on-resistance transistor provides a low dropout voltage and large output current, a built-in overcurrent protector prevents the load current from exceeding the current capacitance of the output transistor. An ON/OFF circuit ensures a long battery life. Compared with the voltage regulators using the conventional CMOS process, a larger variety of capacitors are available, including small ceramic capacitors.

Features

- Maximum Output Current: 800 mA ($V_{IN} \geq V_{OUT(T)} + 1.0V$)
- Dropout Voltage: 100mV @ $I_{OUT} = 300mA$, $V_{OUT} = 5.0V$
- Operating Voltage Range: 2V~6.5V
- Output Voltage: 1.5V~5.6V , selectable in 0.1V steps
- Highly Accuracy: $\pm 1\%$
- Low Current Consumption:
During Operation: 100uA (TYP.)
During Shutdown: 0.1uA (TYP.)
- High Ripple Rejection: 65dB@1KHz (ME6217C50)
- Line Regulation: 0.05% (TYP.)
- Thermal Shutdown Protection: 160°C
- Small Packages: SOT-89-5, SOT23-5, SOT89-3

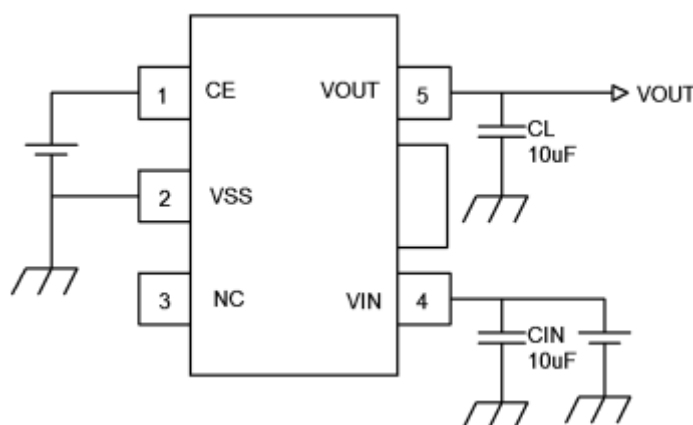
Selection Guide



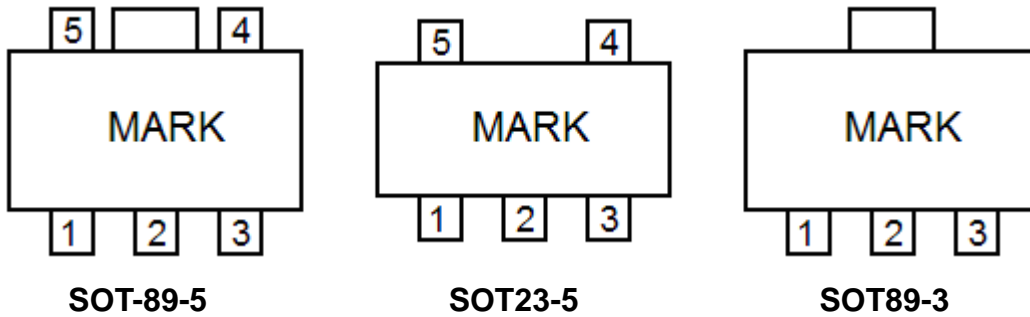
Typical Application

- Power supply for DVD and CD-ROM drives
- Power supply for personal communication device
- Power supply for battery-powered devices
- Power supply for note PCs

Typical Application Circuit



Pin Configuration



Pin Assignment

ME6217AXX

Pin Number	Pin Name	Functions
SOT89-3		
1	V_{SS}	Ground
2	V_{IN}	Input Voltage
3	V_{OUT}	Output Voltage

ME6217CXX

Pin Number		Pin Name	Functions
SOT89-5	SOT23-5		
1	3	CE	ON / OFF Control
2	2	V_{SS}	Ground
3	4	NC	No Connect
4	1	V_{IN}	Input Voltage
5	5	V_{OUT}	Output Voltage

Absolute Maximum Ratings

可提供技术支持 完整规格书 欢迎试样 V: runzexi n-18

Parameter	Symbol	Ratings	Units
Input Voltage	V_{IN}	7.0	V
Output Current	I_{OUT}	800	mA
Output Voltage	V_{OUT}	$V_{SS}-0.3 \sim V_{IN} +0.3$	V
CE Pin Voltage	V_{CE}	$V_{SS}-0.3 \sim V_{IN} +0.3$	V
Power Dissipation	P_D	1000	mW
Operating Temperature Range	T_{OPR}	$-40 \sim +85$	$^{\circ}C$
Storage Temperature Range	T_{STG}	$-40 \sim +125$	$^{\circ}C$

Block Diagram

