

GENERAL DESCRIPTION

The JX6105 series are a group of low-dropout (LDO) voltage regulators offering the benefits of wide input voltage range from 1.2V to 5.5V, low dropout voltage, low power consumption, and miniaturized packaging.

Quiescent current of only 2 μ A makes these devices ideal for powering the battery-powered, always-on systems that require very little idle-state power dissipation to a longer service life. There is an option of shutdown mode by selecting the parts with the EN pin and pulling it low. The shutdown current in this mode goes down to only 100nA (typical).

The JX6105 series of linear regulators are stable with the ceramic output capacitor over its wide input range from 1.2V to 5.5V and the entire range of output load current (0mA to 500mA).

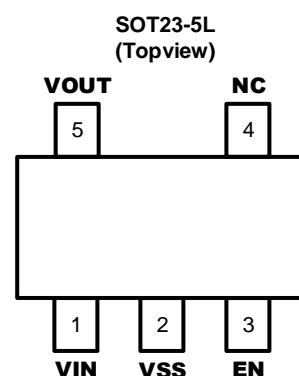
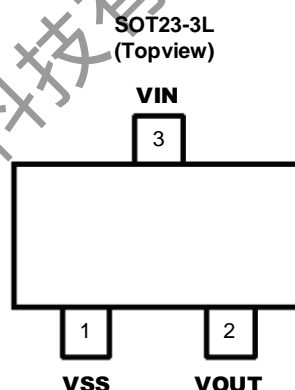
APPLICATIONS

- ✧ Portable, Battery Powered Equipment
- ✧ Low Power Microcontrollers
- ✧ Laptop, Palmtops and PDAs
- ✧ Wireless Communication Equipment
- ✧ Audio/Video Equipment
- ✧ Car Navigation Systems

FEATURES

- ✧ 2 μ A Quiescent Current at no Load
- ✧ $\pm 2\%$ Output Accuracy
- ✧ 500mA Output Current
- ✧ 10nA Disable Current (by option)
- ✧ Wide Operating Input Voltage Range: 1.2V to 5.5V
- ✧ Dropout Voltage: 0.18V at 300mA / VOUT 3.3V
- ✧ Support Fixed Output Voltage 1.2V, 1.5V, 1.6V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V
- ✧ Stable with Ceramic or Tantalum Capacitor
- ✧ Current Limit Protection
- ✧ Over-Temperature Protection
- ✧ SOT-23-3 , SOT-23-5 Packages Available

PIN CONFIGURATIONS



DESCRIPTION OF FUNCTIONAL PINS

PIN NUMBER		PIN NAME	FUNCTIONS
SOT23-5L	SOT23-3L		
5	2	VOUT	Output
2	1	VSS	Ground
1	3	VIN	Power Input
3	—	EN	Enable
4	—	NC	No Connection