

600mA, 500kHz, Step-Down Switching Regulator in SOT-23

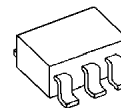
■ GENERAL DESCRIPTION

The NJW1616 is a switching regulator IC for buck converter that operates wide input voltage range from 4.5V to 20V. The wide input range makes the NJW1616 suitable for several applications such as 12V commodity supplies, and the other unregulated voltage sources.

It corresponds to Low ESR output capacitor (MLCC), high operating frequency of 500kHz, internally compensated and small SOT-23 package. Therefore, the NJW1616 can realize downsizing of applications with a few and tiny external parts so that adopts current mode control.

Also, it has a soft start function, over current protection and thermal shutdown circuit.

■ PACKAGE OUTLINE

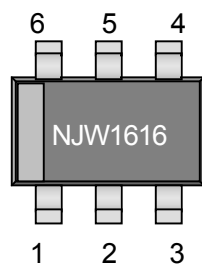


NJW1616F1

■ FEATURES

- Pin compatible with LT1616 and LT2736. Also it is possible to reduce an external part
- Maximum Rating Input Voltage: 25V
- Wide Operating Voltage Range: 4.5 V to 20V
- Switching Current: 0.8A (min.)
- Fixed Operating Frequency: 500kHz
- Uses Tiny Capacitors and Inductors
- Soft Start Function
- Low Shutdown Current < 1 μ A
- Internally Compensated
- Under Voltage Lockout (UVLO)
- Output Adjustable Down to 1.25V
- Over Current Protection / Thermal Shutdown Protection
- Package Outline: SOT-23-6-1

■ PIN CONFIGURATION



Pin Function

1. N.C.
2. GND
3. FB
4. SHDN
5. V_{IN}
6. SW