LOW DROPOUT VOLTAGE REGULATOR

■ GENERAL DESCRIPTION

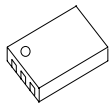
The NJM2831 is a 100mA output low dropout voltage regulator with ON/OFF control.

Advanced Bipolar technology achieves low noise, high ripple rejection and low quiescent current.

2.1V to 15.5V output voltage range, 1μF small decoupling capacitor, built-in noise bypass capacitor make the NJM2831 suitable for various applications.

■ PACKAGE OUTLINE

NJM2831F

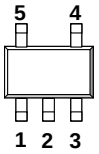


NJM2831KG1

■ FEATURES

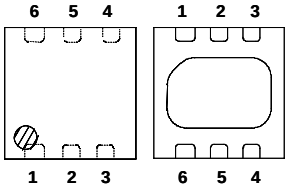
- Output voltage options available 2.1 ~ 15.5V (0.1V step)
- High Ripple Rejection 75dB typ. (f=1kHz Vo=3V Version)
- Output Noise Voltage Vno=45μVrms typ.
- Output capacitor with 1.0μF ceramic capacitor (Vo≥5.1V)
- Output Current Io(max.)=100mA
- High Precision Output Vo±1.0%
- Low Dropout Voltage 0.10V typ. (Io=60mA)
- ON/OFF Control (Active High)
- Internal Short Circuit Current Limit
- Internal Thermal Overload Protection
- Bipolar Technology
- Package Outline SOT-23-5, ESON6-G1

■ PIN CONFIGURATION



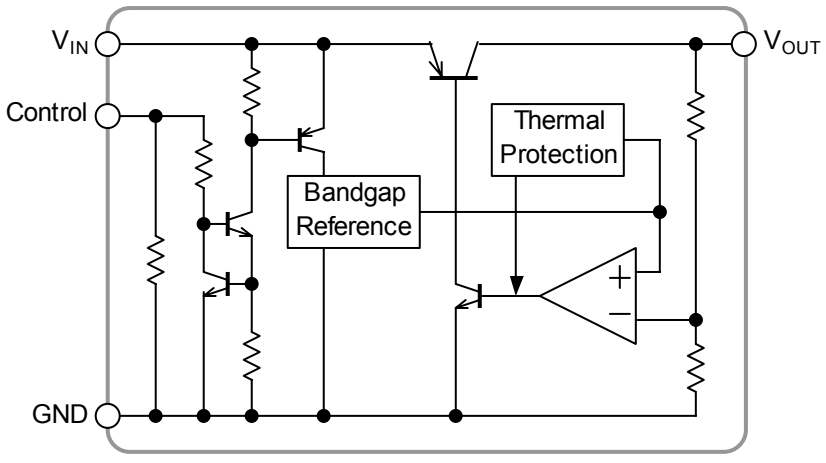
1. CONTROL
2. GND
3. NC
4. V_{OUT}
5. V_{IN}

NJM2831F



Exposed Pad

1. GND
2. NC
3. CONTROL
4. V_{IN}
5. NC
6. V_{OUT}

NJM2831KG1

■ EQUIVALENT CIRCUIT