

LOW DROPOUT VOLTAGE REGULATOR

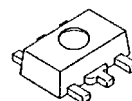
■ GENERAL DESCRIPTION

The NJM2830 is a 300mA 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, 1 μ F small decoupling capacitor, built-in noise bypass capacitor make the NJM2830 suitable for various applications.

■ PACKAGE OUTLINE

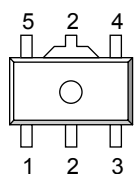


NJM2830U1

■ 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 | V _{no} =50 μ Vrms typ. (Vo=3V Version) |
| ● Output capacitor with 1.0 μ F ceramic capacitor (Vo $\geq$ 5.6V) | |
| ● Output Current | I _o (max.)=300mA |
| ● High Precision Output | Vo $\pm$ 1.0% |
| ● Low Dropout Voltage | 0.10V typ. (I _o =100mA) |
| ● ON/OFF Control | (Active High) |
| ● Internal Thermal Overload Protection | |
| ● Internal Over Current Protection | |
| ● Bipolar Technology | |
| ● Package Outline | SOT-89-5 |

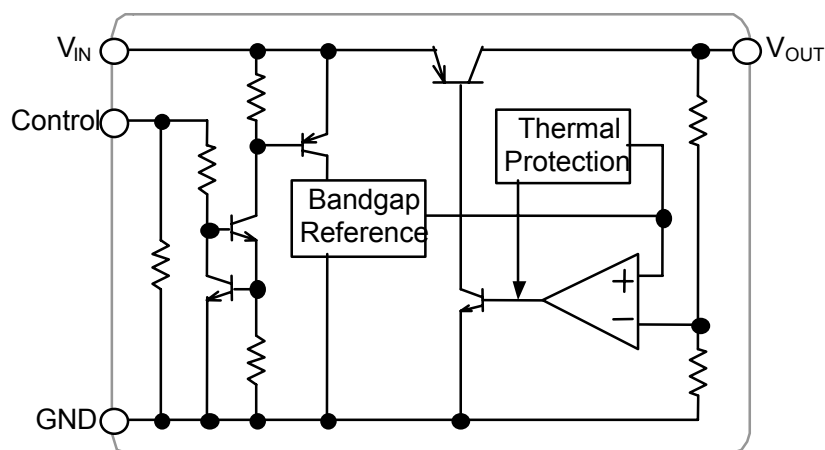
■ PIN CONFIGURATION



NJM2830U1

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

■ EQUIVALENT CIRCUIT



NJM2830

■ OUTPUT VOLTAGE

Device Name	Vout
NJM2830U1-21	2.1V
NJM2830U1-25	2.5V
NJM2830U1-03	3.0V
NJM2830U1-33	3.3V
NJM2830U1-05	5.0V
NJM2830U1-57	5.7V
NJM2830U1-58	5.8V
NJM2830U1-06	6.0V
NJM2830U1-08	8.0V
NJM2830U1-85	8.5V
NJM2830U1-86	8.6V
NJM2830U1-09	9.0V
NJM2830U1-12	12.0V
NJM2830U1-15	15.0V

The WHITE column shows applicable Voltage Rank(s)