

Product Overview

NCP781: Linear Voltage Regulator, 100 mA, 150 V, High PSRR

For complete documentation, see the data sheet.

The NCP781 is a very high-voltage tolerant linear regulator that offers the benefits of thermally enhanced DFN6 3.3 x 3.3 package and is able to withstand continuous DC or transient input voltages up to 150 V. The device is stable with small 0.1 uF Ceramic Output Capacitors which allows smaller PCB design at space constraining applications. The device features enable pin compatibility with standard CMOS logic.

Features

- Wide Input Voltage Range: 6 V to 150 V
- $\pm 2.5\%$ Accuracy at Room Temperature
- Very Low Quiescent Current of Typ. 25 μ A

Applications

- Led Lighting
- Bias Power Supplies
- Industrial Equipment

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V_o (V)	I_o Typ (A)	V_i Min (V)	V_i Max (V)	V_{DO} Typ (V)	I_g Typ (mA)	PSRR (dB)	Noise (μ V _{rms})	Enable	PowerGood	Application	Package Type
NCP781BMN033TAG	0.3	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.3	0.1	6	150	6.5	27	75	260	Yes	No	Industrial	DFN-6
NCP781BMN050TAG	0.3	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	5	0.1	6	150	7	27	65	300	Yes	No	Industrial	DFN-6
NCP781BMN150TAG	0.3	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	15	0.1	6	150	9.5	27	53	530	Yes	No	Industrial	DFN-6
NCP781BMNADJTAG	0.3	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	Adj	0.1	6	150	Adj	27	53	130	Yes	No	Industrial	DFN-6

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