

产品概览

TL431: 电压参考，可编程精度，分路稳压器

欲看完整文档，请参阅数据表。

TL431、A、B 集成电路为三端子可编程分路稳压器二极管。此类单片集成电路电压参考作为低温度系数齐纳运行，配合两个外部电阻可从 V_{ref} 至 36 V 进行编程。此类器件具有 1.0 mA 至 100 mA 的宽运行电流范围，典型动态阻抗为 0.22 W。此类参考的特性使其成为很多应用中齐纳二极管的绝佳替代器件，如数字电压计、电源和运算放大器电路。2.5 V 参考使其能够从 5.0 V 逻辑电源方便地获取稳定参考，因为 TL431、A、B 作为分路稳压器运行，所以既可用于正电压参考也可用作负电压参考。

特性

- Programmable Output Voltage to 36 V
- Voltage Reference Tolerance: +/- 0.4%, Typ @ 25°C (TL431B)
- Low Dynamic Output Impedance, 0.22 W Typical
- Sink Current Capability of 1.0 mA to 100 mA
- Equivalent Full-Range Temperature Coefficient of 50 ppm/ °C Typical
- Temperature Compensated for Operation over Full Rated Operating Temperature Range
- Low Output Noise Voltage
- Pb-Free Packages are Available

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Type	V _(BR) Typ (V)	Tolerance (%)	I _O Typ (mA)	I _R Min (mA)	V _F Max (V)	T _A Min (°C)	T _A Max (°C)	Package Type
NCV431AIDMR2G	0.2471	AEC Qualified	Active	Adjustable	2.5	1	0.5	1	36	-40	125	Micro8™
		PPAP Capable										
		Pb-free										
		Halide free										
NCV431AIDR2G	0.28	AEC Qualified	Active	Adjustable	2.5	1	0.5	1	36	-40	125	SOIC-8
		PPAP Capable										
		Pb-free										
		Halide free										
NCV431BVDMR2G	0.336	AEC Qualified	Active	Adjustable	2.5	0.4	0.5	1	36	-40	125	Micro8™
		PPAP Capable										
		Pb-free										
		Halide free										
NCV431BVDR2G	0.2683	AEC Qualified	Active	Adjustable	2.5	0.4	0.5	1	36	-40	125	SOIC-8
		PPAP Capable										
		Pb-free										
		Halide free										
TL431CDG	0.0888	Pb-free	Active	Adjustable	2.5	2.2		1	36	0	70	SOIC-8
		Halide free										
TL431CDMR2G	0.1096	Pb-free	Active	Adjustable	2.5	2.2		1	36	0	70	Micro8™
		Halide free										
TL431CDR2G	0.1333	Pb-free	Active	Adjustable	2.5	2.2		1	36	0	70	SOIC-8
		Halide free										
TL431CLPG	0.0729	Pb-free	Active	Adjustable	2.5	2.2		1	36	0	70	TO-92
		Halide free										
TL431CLPRAG	0.112	Pb-free	Active	Adjustable	2.5	2.2		1	36	0	70	TO-92
		Halide free										
TL431CLPRPG	0.0752	Pb-free	Active	Adjustable	2.5	2.2		1	36	0	70	TO-92
		Halide free										
TL431IDG	0.1157	Pb-free	Active	Adjustable	2.5	2.2		1	36	-40	85	SOIC-8
		Halide free										
TL431IDMR2G		Pb-free	Active	Adjustable	2.5	2.2		1	36	-40	85	Micro8™
		Halide free										
TL431IDR2G	0.0817	Pb-free	Active	Adjustable	2.5	2.2		1	36	-40	85	SOIC-8
		Halide free										
TL431ILPG	0.1007	Pb-free	Active	Adjustable	2.5	2.2		1	36	-40	85	TO-92
		Halide free										
TL431ILPRAG	0.1051	Pb-free	Active	Adjustable	2.5	2.2		1	36	-40	85	TO-92
		Halide free										
TL431ILPRPG	0.1168	Pb-free	Active	Adjustable	2.5	2.2		1	36	-40	85	TO-92
		Halide free										

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

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