

产品概览

NCP1117: LDO 稳压器, 1 A, 固定和可调, 正向

欲看完整文档, 请参阅数据表。

NCP1117 系列为低漏 (LDO) 正向线性电压稳压器, 能够在较大温度范围内提供超过 1.0 A 的输出电流, 800 mA 时的最大漏极电压为 1.2 V。此系列包括八个固定输出电压: 1.5 V、1.8 V、2.0 V、2.5 V、2.85 V、3.3 V、5.0 V 和 12 V, 对于保持调节没有最低负载要求。还包括可调节输出版本, 可使用两个外部电阻编程为 1.25 V 至 18.8 V。片上微调可将参考/输出电压调至 +/- 1.0% 准确度范围内。内部保护功能包括输出电流限制、安全运行区域补偿和高温关断。NCP1117 系列可在高达 20 V 输入下运行。此类器件采用 SOT223 和 DPAK 封装。

特性

- Output Current in Excess of 1.0 A
- 1.2 V Maximum Dropout Voltage at 800 mA Over Temperature
- Fixed Output Voltages of 1.5 V, 1.8 V, 2.0 V, 2.5 V, 2.85 V, 3.3 V, 5.0 V, and 12 V
- Adjustable Output Voltage Option
- No Minimum Load Requirement for Fixed Voltage Output Devices
- Reference/Output Voltage Trimmed to +/- 1.0%
- Current Limit, Safe Operating and Thermal Shutdown Protection
- Operation to 20 V Input
- Pb-Free Packages are Available

应用

- Consumer and Industrial Equipment Point of Regulation
- Active SCSI Termination for 2.85 V Version
- Switching Power Supply Post Regulation
- Hard Drive Controllers
- Battery Chargers

终端产品

- Direct replacement LM1117

产品	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _{Min} (V)	V _{Max} (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSR R (dB)	Noise (μV _{rms})	Enable	PowerGood	Package Type
NCP1117DT12G	0.1239	Pb-free Halide free	Active	Single	Positive	12	1	2.4	20	1.2	6	54	360	No	No	DPA K-3
NCP1117DT12RKG	0.1377	Pb-free Halide free	Active	Single	Positive	12	1	2.4	20	1.2	6	54	360	No	No	DPA K-3
NCP1117DT15G	0.1311	Pb-free Halide free	Active	Single	Positive	1.5	1	2.4	20	1.2	4.3	72	45	No	No	DPA K-3
NCP1117DT15RKG	0.1288	Pb-free Halide free	Active	Single	Positive	1.5	1	2.4	20	1.2	4.3	72	45	No	No	DPA K-3
NCP1117DT18G	0.1292	Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.2	4.3	72	54	No	No	DPA K-3
NCP1117DT18RKG	0.1319	Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.2	4.3	72	54	No	No	DPA K-3
NCP1117DT18T5G	0.1377	Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.2	4.3	72	54	No	No	DPA K-3
NCP1117DT20G	0.1576	Pb-free Halide free	Active	Single	Positive	2	1	2.4	20	1.2	4.5	70	60	No	No	DPA K-3
NCP1117DT20RKG	0.1496	Pb-free Halide free	Active	Single	Positive	2	1	2.4	20	1.2	4.5	70	60	No	No	DPA K-3
NCP1117DT25G	0.1321	Pb-free Halide free	Active	Single	Positive	2.5	1	2.4	20	1.2	5.2	68	75	No	No	DPA K-3
NCP1117DT25RKG	0.1364	Pb-free Halide free	Active	Single	Positive	2.5	1	2.4	20	1.2	5.2	68	75	No	No	DPA K-3
NCP1117DT25T5G		Pb-free Halide free	Active	Single	Positive	2.5	1	2.4	20	1.2	5.2	68	75	No	No	DPA K-3
NCP1117DT285G	0.1496	Pb-free Halide free	Active	Single	Positive	2.85	1	2.4	20	1.2	5.5	68	85.5	No	No	DPA K-3
NCP1117DT285RKG	0.1377	Pb-free Halide free	Active	Single	Positive	2.85	1	2.4	20	1.2	5.5	68	85.5	No	No	DPA K-3
NCP1117DT33G	0.1335	Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.2	6	64	99	No	No	DPA K-3
NCP1117DT33RKG	0.1577	Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.2	6	64	99	No	No	DPA K-3
NCP1117DT33T5G	0.1377	Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.2	6	64	99	No	No	DPA K-3
NCP1117DT50G	0.1235	Pb-free Halide free	Active	Single	Positive	5	1	2.4	20	1.2	6	61	150	No	No	DPA K-3
NCP1117DT50RKG	0.1699	Pb-free Halide free	Active	Single	Positive	5	1	2.4	20	1.2	6	61	150	No	No	DPA K-3
NCP1117DTAG	0.1331	Pb-free Halide free	Active	Single	Positive	Adj	1	2.4	20	1.2	3.6	73	-	No	No	DPA K-3
NCP1117DTARKG	0.1588	Pb-free Halide free	Active	Single	Positive	Adj	1	2.4	20	1.2	3.6	73	-	No	No	DPA K-3
NCP1117DTAT5G	0.1377	Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.2	3.6	73	99	No	No	DPA K-3
NCP1117ST12T3G	0.1364	Pb-free Halide free	Active	Single	Positive	12	1	2.4	20	1.2	6	54	360	No	No	SOT-223-4 / TO-261-4
NCP1117ST15T3G	0.1379	Pb-free Halide free	Active	Single	Positive	1.5	1	2.4	20	1.2	4.3	72	45	No	No	SOT-223-4 / TO-261-4
NCP1117ST18T3G	0.1361	Pb-free Halide free	Active	Single	Positive	1.8	1	2.4	20	1.2	4.3	72	54	No	No	SOT-223-4 / TO-261-4
NCP1117ST20T3G	0.1377	Pb-free Halide free	Active	Single	Positive	2	1	2.4	20	1.2	4.5	70	60	No	No	SOT-223-4 / TO-261-4

NCP1117ST25T3G	0.1269	Pb-free Halide free	Active	Single	Positive	2.5	1	2.4	20	1.2	5.2	68	75	No	No	SOT-223-4 / TO-261-4
NCP1117ST33T3G	0.1344	Pb-free Halide free	Active	Single	Positive	3.3	1	2.4	20	1.2	6	64	99	No	No	SOT-223-4 / TO-261-4
NCP1117ST50T3G	0.1381	Pb-free Halide free	Active	Single	Positive	5	1	2.4	20	1.2	6	61	150	No	No	SOT-223-4 / TO-261-4
NCP1117STAT3G	0.1472	Pb-free Halide free	Active	Single	Positive	Adj	1	2.4	20	1.2	3.6	73	-	No	No	SOT-223-4 / TO-261-4

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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