



Product Overview

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NCP582: 150 mA Low Noise, Low Dropout Linear Voltage Regulator with Enable

[For complete documentation, see the data sheet](#)

Product Description

The NCP582 low dropout (LDO) linear voltage regulator is designed for portable battery powered applications which require precise output voltage accuracy, low supply current and high ripple rejection. These devices feature an enable function and are offered in active low and active high with auto discharge.

Features

- UltraLow Dropout Voltage of 220 mV at 150 mA
- Excellent Line and Load Regulation
- High Output Voltage Accuracy of +/-2%
- Low Supply Current of 75 μ A
- Excellent Power Supply Rejection Ratio
- Wide Operating Voltage of 1.5 V to 3.3 V
- Low Standby Current of 0.1 μ A
- Fast Dynamic Performance
- Fold Back Protection Circuit
- Low Temperature Drift Coefficient on the Output Voltage

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _Q Typ (mA)	PSRR (dB)	Noise (μV _{rms})	Package Type
NCP582DSQ15T1G	Pb-free	Active	Single	Positive	1.5	0.15	6.5	0.38				SC82AB-4
NCP582DSQ18T1G	Pb-free	Active	Single	Positive	1.8	0.15	6.5	0.32				SC82AB-4
NCP582DSQ25T1G	Pb-free	Active	Single	Positive	2.5	0.15	6.5	0.28				SC82AB-4
NCP582DSQ28T1G	Pb-free	Active	Single	Positive	2.8	0.15	6.5	0.22				SC82AB-4
NCP582DSQ30T1G	Pb-free	Active	Single	Positive	3	0.15	6.5	0.22				SC82AB-4
NCP582DSQ33T1G	Pb-free	Active	Single	Positive	3.3	0.15	6.5	0.22				SC82AB-4
NCP582DXV15T2G	Pb-free	Active	Single	Positive	1.5	0.15	6.5	0.38				SOT563-6
NCP582DXV18T2G	Pb-free	Active	Single	Positive	1.8	0.15	6.5	0.32				SOT563-6
NCP582DXV25T2G	Pb-free	Active	Single	Positive	2.5	0.15	6.5	0.28				SOT563-6
NCP582DXV28T2G	Pb-free	Active	Single	Positive	2.8	0.15	6.5	0.28				SOT563-6
NCP582DXV29T2G	Pb-free	Active	Single	Positive	2.9	0.15	6.5	0.28				SOT563-6
NCP582DXV30T2G	Pb-free	Active	Single	Positive	3	0.15	6.5	0.28				SOT563-6
NCP582DXV33T2G	Pb-free	Active	Single	Positive	3.3	0.15	6.5	0.28				SOT563-6
NCP582LSQ15T1G	Pb-free	Active	Single	Positive	1.5	0.15	6.5	0.38				SC82AB-4
NCP582LSQ18T1G	Pb-free	Active	Single	Positive	1.8	0.15	6.5	0.32				SC82AB-4
NCP582LSQ25T1G	Pb-free	Active	Single	Positive	2.5	0.15	6.5	0.28				SC82AB-4
NCP582LSQ28T1G	Pb-free	Active	Single	Positive	2.8	0.15	6.5	0.22				SC82AB-4
NCP582LSQ30T1G	Pb-free	Active	Single	Positive	3	0.15	6.5	0.22				SC82AB-4
NCP582LSQ33T1G	Pb-free	Active	Single	Positive	3.3	0.15	6.5	0.22				SC82AB-4
NCP582LXV15T2G	Pb-free	Active	Single	Positive	1.5	0.15	6.5	0.38				SOT563-6
NCP582LXV18T2G	Pb-free	Active	Single	Positive	1.8	0.15	6.5	0.32				SOT563-6
NCP582LXV25T2G	Pb-free	Active	Single	Positive	2.5	0.15	6.5	0.28				SOT563-6
NCP582LXV28T2G	Pb-free	Active	Single	Positive	2.8	0.15	6.5	0.28				SOT563-6
NCP582LXV29T2G	Pb-free	Active	Single	Positive	2.9	0.15	6.5	0.28				SOT563-6
NCP582LXV30T2G	Pb-free	Active	Single	Positive	3	0.15	6.5	0.28				SOT563-6
NCP582LXV33T2G	Pb-free	Active	Single	Positive	3.3	0.15	6.5	0.28				SOT563-6

Package Availability

Type	Pb-free	Standard
SOT563-6	✓	
SC82AB-4	✓	

For more information please contact your local sales support at www.onsemi.com