



ZHEJIANG UNIU-NE Technology CO., LTD

浙江宇力微新能源科技有限公司



LMV321/358/324 Data Sheet

V 1.1

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Low-Voltage Rail-to-Rail Output Operational

General Description

The LMV321 and LMV358 are low-voltage (2.7 V to 5 . 0 V) versions of the dual and quad operational amplifiers, LM324 and LM358, that operate from 5 V to 30 V. The LMV321 is the single-amplifier version.

The LMV321, LMV324, and LMV358 are the most cost-effective solutions for applications where low-voltage operation, space saving, and low price are needed. They offer specifications that meet or exceed those of the familiar LM358 and LM324 devices. These devices have rail-to-rail output-swing capability, and the input common-mode voltage range includes ground. They all exhibit excellent speed-to-power ratios, achieving 1MHz of bandwidth at 1V/us slew rate with low supply current.

The LMV321 is available in the ultra-small DCK package, which is approximately one-half the size of the DBV package. This package saves space on printed circuit boards and enables the design of small portable electronic devices. It also allows the designer to place the device closer to the signal source to reduce noise pickup and increase signal integrity.

The LMV321 is available in SOT23-5 package.

The LMV358 is available in SOP8 and TSSOP8 package.

The LMV324 is available in SOP14 and TSSOP14 package.

Features

- 2.7V and 5V Performance
- No Crossover Distortion
- Low Supply Current:

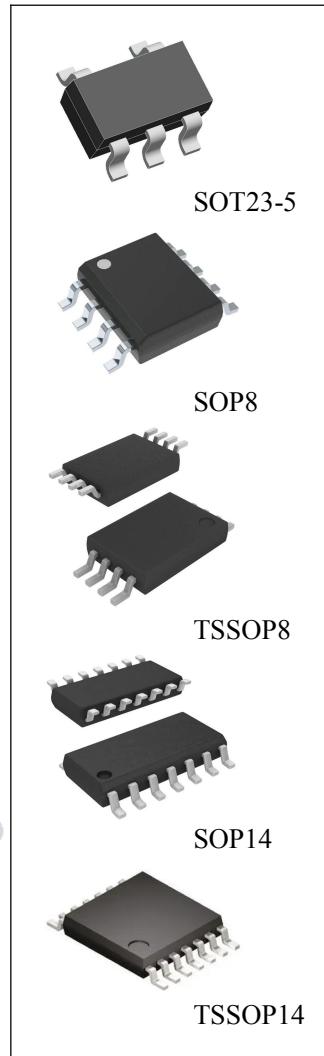
LMV321 . . . 130 μ A Typ

LMV358 . . . 210 μ A Typ

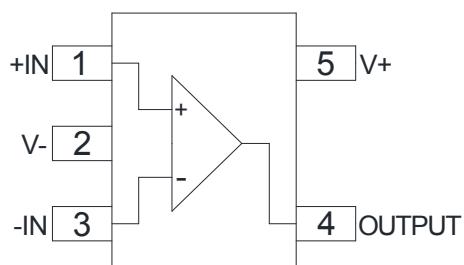
LMV324 . . . 410 μ A Typ

- Rail-to-Rail Output Swing
- Package Options Include Plastic

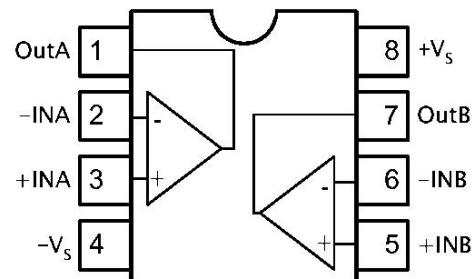
Small-Outline (D), Small-Outline Transistor(SOT23 DBV, SC-70 DCK), and Thin Shrink Small-Outline (PW) Packages description.



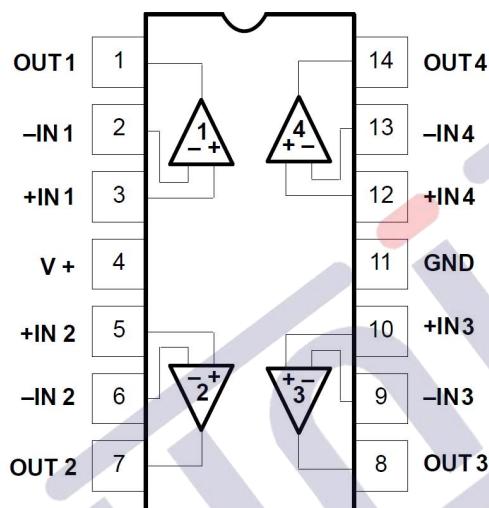
Block Diagram and Pin Configuration



LMV321(SOT23-5)



LMV358(SOP8/TSSOP8)



LMV324(SOP14/TSSOP14)

Symbol(each qmplifier)

AVAILABLE OPTIONS

T _A	Package Type	Packaged Devices		
		Single	Dual	Quadruple
-40°C to 85°C	SOT23-5	LMV321	—	—
	SOP8 TSSOP8	—	LMV358	—
	SOP14 TSSOP14	—	—	LMV324

The D package is available taped and reeled. Add the suffix R to the device type (e.g., LMV324). The DCK, DBV, and PW packages are only available left-end taped and reeled.

1.版本记录

DATE	REV.	DESCRIPTION
2018/04/19	1.0	First Release
2021/12/11	1.1	Layout adjustment

2.免责声明

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