DIODES INCORPORATED

New Product Announcement

LMV321/358/324 family of Low Voltage Rail-Rail output op amps

Description

The LMV321/358/324 are a family of single/dual/quad low voltage (2.7V ~ 5.5V) rail-rail output op amps.

They have been specified to be cross-referenced to National's LMV321/358/324 family. This industry standard family has gained wide acceptance around the world.

Diodes' LMV321/LMV358/LMV324 has been designed to effectively reduce cost and space at low voltage levels.

It expands Diodes' portfolio of industry standard analog products.

The Diodes advantage

- **Pin-pin compatible with LMV321/358/324**
  Offers customers a lower cost solution to other manufacturers' LMV321/358/324
- **-40 to 85°C temperature range**
  Operates over whole industrial temperature range
- **Rail-rail output swing**
  Maximizes available dynamic range available
- **Wide range of packages**
  Industry standard drop-in

Typical application areas

- Amplifying and filtering from 5V and 3.3V rails
- Set Top Boxes
- Modems
- Portable test equipment

DIODES INCORPORATED

New Product Announcement

LMV321/358/324 family of Low Voltage Rail-Rail output op amps

Diodes general purpose op amps

Part number	Supply Voltage range (V)	Supply current @5V (mA)	Input Offset Voltage (typ) (mV)	Input Bias Current (typ) (nA)	Input Common Mode Voltage range (V)	Rail-rail	Output current (source) (mA)	Output current (sink) (mA)	Number of Channels	Operating ambient temperature range (°C)	Package outline
APX321	2.5~5.5	0.11	1.7	15	V-+0.2 to V+ -0.2	Input/Output	60	90	1	-40 to +85	SOT25 SOT353
LMV321	2.5~5.5	0.11	1.7	15	V-+0.2 to V+ -0.8	Output	60	90	1	-40 to +85	SOT25 SOT353
AP358	3 ~32	0.5	2	45	0 to V+ -1.5	No	40	20	2	0 to +70	PDIP-8L SOP-8L
APX358	2.5 ~5.5	0.19	1.7	15	V- +0.2 to V+ -0.2	Input/Output	60	90	2	-40 to +85	MSOP-8L SOP-8L
LMV358	2.5 ~5.5	0.19	1.7	15	V-+0.2 to V+ -0.8	Output	60	90	2	-40 to +85	MSOP-8L SOP-8L
APX324	2.5 ~5.5	0.34	1.7	15	V-+0.2 to V+ -0.2	Input/Output	60	90	4	-40 to +85	TSSOP-14L
LMV324	2.5 ~5.5	0.34	1.7	15	V-+0.2 to V+ -0.8	Output	60	90	4	-40 to +85	TSSOP-14L

To find out more information:

Product page http://www.diodes.com/products/catalog/list.php?parent-id=75
Datasheet http://www.diodes.com/datasheets/LM321_358.pdf

Ordering information

Part	Part mark	Bulk quanitity	Package	Reel size
LMV321WG-7	BX	3000	SOT25	7″
LMV321SEG-7	BY	3000	SOT353	7″
LMV358M8G-13	LMV358	2500	MSOP8	13″
LMV358SG-13	LMV358	2500	SO8	13″
LMV324TSG-13	LMV324	2500	TSSOP14	13″

All variants are in packages that are "Green" Molding Compound (No Br, Sb) with Lead Free Finish/RoHS Compliant (Note 1)

Notes: 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.