



New Product Announcement

LMV331/393

General Purpose Low Voltage Comparator

The LMV331/LMV393 series are low voltage (2.7V to 5.5V) single and dual comparators, which are designed to effectively reduce cost and space at low voltage levels.

These devices offer specifications that meet or exceed the familiar LMV331/LMV393 devices operating with a lower supply voltage and consuming a far lower supply current.

The LMV331 is available in 5-Pin SOT353/SOT25 packages that reduce space on PC boards and portable electronic devices.

The LMV393 is available in industry standard SOP-8 and MSOP-8 packages.



The Diodes advantage

- **Industry standard part number and specification**
Offer a higher performance and cost effective alternative to other manufacturers' LMV331/393 series
- **Wide operating temperature range(-40°C to +125°C)**
Compatible for industrial system requirements
- **Low supply current 40 μ A/comparator Typ**
Lower system power consumption
- **Industrial standard package options and pin arrangement**
Drop in replacement for alternative parts

Applications

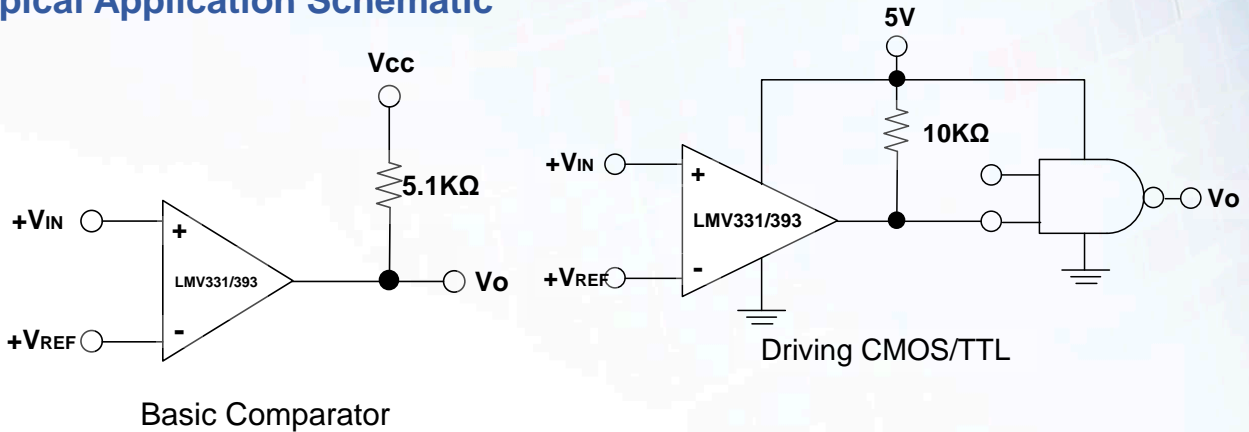
- Mobile communication
- Battery powered devices
- General purpose portable devices
- Notebooks
- General purpose low voltage applications



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Typical Application Schematic



Product Portfolio

Part Number	Supply Voltage Range (V)	Supply Current @ VCC=5V typ. (mA)	Input Offset Voltage (typ/max) (mV)	Input Bias Current typ.(nA)	Input Common Mode Voltage (V)	Number of Channels	Operating Ambient Temperature Range, Ta(°C)	Output Type	Package Outline
LMV331	2.7-5.5	0.04	1.7/7.0	10	-0.1 to 2	1	-40 to +125	Open Collector	SOT353, SOT25
LMV393	2.7-5.5	0.07	1.7/7.0	10	-0.1 to 2	2	-40 to +125	Open Collector	SO-8, MSOP-8
AZV331	2.5-5.5	0.04	1.7/7.0	10	-0.1 to 2	1	-40 to +85	Open Collector	SC70-5, SOT25
AZV393	2.5-5.5	0.07	1.7/7.0	10	-0.1 to 2	2	-40 to +85	Open Collector	SO-8, TSSOP-8, MSOP-8
APX339	2.5-5.5	0.24	1.7/7.0	10	V+0.2V to V+-0.2V	4	-40 to +85	Open Collector	TSSOP-14

Ordering Information

Device	Package Code	Packaging	7"/13" Tape and Reel	
			Quantity	Part Number Suffix
LMV331W5-7	W5	SOT25	3000/Tape & Reel	-7
LMV331SE-7	SE	SOT353	3000/Tape & Reel	-7
LMV393S-13	S	SO-8	2500/Tape & Reel	-13
LMV393M8-13	M8	MSOP-8	2500/Tape & Reel	-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
 2 Codes for date coding on part marks
 Y Year 0-9 YY Year 08, 09 etc W A-Z week 1-26 a-z week 27-53 WW Week 01-52 X A-Z: Green