

## Product Overview

### LMV339: Comparator, Quad, Low Voltage

For complete documentation, see the data sheet.

The LMV331 is a single channel, general purpose, low voltage comparator. The LMV393 and LMV339 are dual and quad channel versions, respectively. The LMV331/393/339 are specified for 2.7V to 5.0 volt performance, have excellent input common-mode range, low quiescent current, and are available in several space saving packages. The LMV331 is available in a 5-pin SC70 and a TSOP-5 package, the LMV393 is available in an 8-pin Micro8 and a SOIC-8 package, and the LMV339 is available in a 14-pin SOIC14 and a TSSOP14 package. The LMV331/393/339 are cost effective solutions for applications where space saving, low voltage operation, and low power are the primary specifications in circuit design for portable applications.

#### Features

- Guaranteed 2.7 V and 5.0 V Performance
- Input common-mode voltage range extends to ground
- Open drain output for Wired-OR applications
- Low Quiescent Current: 60 A/channel TYP @ 5.0 V
- Low Saturation Voltage 200 mV TYP @ 5.0 V
- Propagation Delay 200 ns TYP @ 5.0 V

#### Benefits

- Performance for low voltage applications
- Rail-to-rail input performance
- Digital logic interface capability
- Low voltage, portable applications
- Ensures low output voltage for signal detection
- Fast response for signal detection

#### Applications

- Battery Monitors
- General Purpose Low Voltage Applications

#### End Products

- Notebook and PDA applications
- General Purpose Portable Devices

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Typ (mA)	I <sub>CC</sub> Typ (mA)	t <sub>res</sub> Typ (ns)	V <sub>IO</sub> Max (mV)	T <sub>A</sub> Min (°C)	T <sub>A</sub> Max (°C)	Package Type
LMV339DR2G	0.1783	Pb-free Halide free non AEC-Q and PPAP	Active	4	2.7	5	84	0.17	800	9	-40	85	SOIC-14
LMV339DTBR2G	0.1783	Pb-free Halide free non AEC-Q and PPAP	Active	4	2.7	5	84	0.17	800	9	-40	85	TSSOP-14

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