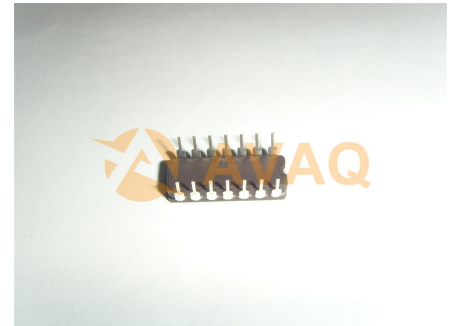


High Speed Dual Comparators

Manufacturer:	STMicroelectronics, Inc
Package/Case:	CDIP14
Product Type:	Linear Displacement Sensors
Lifecycle:	Obsolete



Images are for reference only

[Inquiry](#)

General Description

The LM119 series are precision high-speed dual comparators fabricated on a single monolithic chip. They are designed to operate over a wide range of supply voltages down to a single 5-V logic supply and ground. They have higher gain and lower input currents than devices such as the LM710. The uncommitted collector of the output stage makes the LM119 compatible with RTL, DTL, and TTL, as well as capable of driving lamps and relays at currents of up to 25 mA.

The LM319A offers improved precision over the standard LM319, with tighter tolerances on offset voltage, offset current, and voltage gain.

Although designed primarily for applications requiring operation from digital logic supplies, the LM119 series are fully specified for power supplies up to ± 15 V. The series features faster response than the LM111, at the expense of higher power dissipation. However, the high-speed, wide operating voltage range and low package count make the LM119 more versatile than older devices such as the LM711.

The LM119 is specified from -55°C to $+125^{\circ}\text{C}$, the LM219 is specified from -25°C to $+85^{\circ}\text{C}$, and the LM319A and LM319 are specified from 0°C to $+70^{\circ}\text{C}$.

Key Features

Two Independent Comparators

Operates from a Single 5-V Supply

Typically 80-ns Response Time at ± 15 V

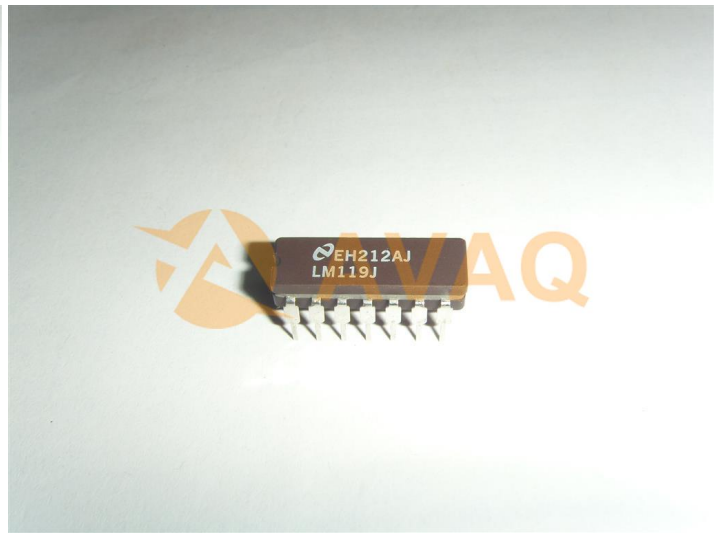
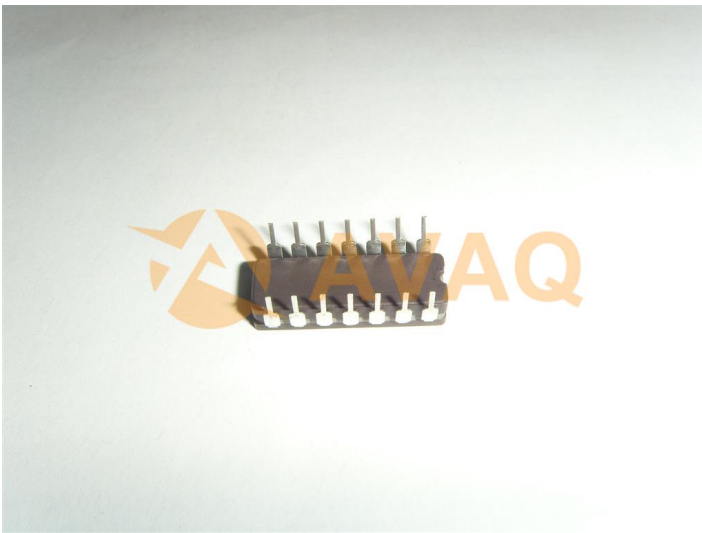
Minimum Fan-out of 2 Each Side

Maximum Input Current of $1\ \mu\text{A}$ Over Temperature

Inputs and Outputs can be Isolated from System Ground

High Common-Mode Slew Rate

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Recommended For You

LMB39D

STMicroelectronics, Inc
SOP14

LMB93D

STMicroelectronics, Inc
SOP8

LM239D

STMicroelectronics, Inc
SOP

LM158DT

STMicroelectronics, Inc
SOP8

LM2902D

STMicroelectronics, Inc
SOP14

LM2903D

STMicroelectronics, Inc
SOP8

LM239PT

STMicroelectronics, Inc
TSSOP14

LMB39DT

STMicroelectronics, Inc
SOP14

LMB39PT

STMicroelectronics, Inc
TSSOP14

LMV358IPT

STMicroelectronics, Inc
TSSOP-8

LMV324IDT

STMicroelectronics, Inc
SOP14

LMB11DT

STMicroelectronics, Inc
SOP-8

LMB93PT

STMicroelectronics, Inc
TSSOP-8

LMB93DT

STMicroelectronics, Inc
SOP-8

LMV358LIDT

STMicroelectronics, Inc
SOP-8