TLC393CP

Comparator Dual R-R O/P 16V 8-Pin PDIP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	DIP-8
Product Type:	Linear Displacement Sensors
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The TLC193 and TLC393 consist of dual independent micropower voltage comparators designed to operate from a single supply. They are functionally similar to the LM393 but uses one-twentieth the power for similar response times. The open-drain MOS output stage interfaces to a variety of loads and supplies. For a similar device with a push-pull output configuration (see the TLC3702 data sheet).

Texas Instruments LinCMOS process offers superior analog performance to standard CMOS processes. Along with the standard CMOS advantages of low power without sacrificing speed, high input impedance, and low bias currents, the LinCMOS process offers ex-tremely stable input offset voltages, even with differential input stresses of several volts. This characteristic makes it possible to build reliable CMOS comparators.

The TLC393C is characterized for operation over the commercial temperature range of T_A = 0°C to 70°C. The TLC393I is characterized for operation over the extended industrial temperature range of T_A = –40°C to 85°C. The TLC393Q is characterized for operation over the full automotive temperature range of T_A = –40°C to 125°C. The TLC193M and TLC393M are characterized for operation over the full military temperature range of T_A = –55°C to 125°C.

Key Features

Very Low Power...110 µW Typ at 5 V

Fast Response Time...t_{PLH} = 2.5 µs Typ With 5-mV Overdrive

Single Supply Operation:
- TLC393C...3 V to 16 V
- TLC393I...3 V to 16 V
- TLC393Q...4 V to 16 V
- TLC393M...4 V to 16 V
- TLC193M...4 V to 16 V

On-Chip ESD Protection

LinCMOS is a trademark of Texas Instruments Incorporated.

Recommended For You

TLC27M2CP

Texas Instruments, Inc

DIP8

TLV3501AIDR

Texas Instruments, Inc

SOP8

TL071ACP

Texas Instruments, Inc

DIP-8

TL062CDR

Texas Instruments, Inc

SOP8

TLE2142IP

Texas Instruments, Inc

DIP8

TLC272AID

Texas Instruments, Inc

SOP-8

TLV3502AQDCNRQ1

Texas Instruments, Inc

SOT23-8

TL084CD

Texas Instruments, Inc

SOP14

TLV2711IDBVR

Texas Instruments, Inc

SOT23-5

TLC074CD

Texas Instruments, Inc

SOP14

TLC2272ACD

Texas Instruments, Inc

SOP-8

TLC2272AIDR

Texas Instruments, Inc

SOP8

TLV2462ID

Texas Instruments, Inc

SOP-8

TLV2471QDBVRQ1

Texas Instruments, Inc

SOT23-5

TLV2381IDBVR

Texas Instruments, Inc

SOT23-5