

Product Overview

TL331: Comparator, Single Channel, Open Collector, Low Power, Wide Supply Range

For complete documentation, see the data sheet.

The TL331 is an open collector, low-power voltage comparator designed specifically to operate over a wide supply range from 2 V to 36 V single supply and ±1 V to ±18 V for split supplies. The input common-mode voltage range includes ground, even when operated from a single power supply voltage.

Features

· Wide Single Supply Voltage Range or Dual Supplies

· Low Supply Current

Low Input Bias Current: 25 nA
Low Input Offset Current: ±5 nA
Low Input Offset Voltage: ±2 mV

· Input Common Mode Voltage Range includes Ground

• Low Output Saturation Voltage: 150 mV typ at IO = 4 mA

· Differential Input Voltage Range Equal to the Supply Voltage

Part Electrical Specifications												
Product	Compliance	Status	Channel s	V _{CC} Min	V _{CC} Max (V)	I _O Typ (mA)	I _{CC} Typ (mA)	t _{res} Typ (ns)	V _{IO} Max (mV)	T _A Min (°C)	T _A Max (°C)	Package Type
TL331SN4T3G	Pb-free Halide free	Active	1	2	36	16	0.5	400	9	-40	125	TSOP-5 / SOT-23- 5
TL331VSN4T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	2	36	16	0.6	400	9	-40	125	TSOP-5 / SOT-23- 5

For more information please contact your local sales support at www.onsemi.com.

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