

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 $I_O = 4$ mA
- Differential Input Voltage Range Equal to the Supply Voltage

Part Electrical Specifications

Product	Compliance	Status	Channels	V _{CC} Min (V)	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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