

Product Overview

LM293: Comparator, Dual, Low Offset Voltage

For complete documentation, see the data sheet.

The LM393 series are dual independent precision voltage comparators capable of single or split supply operation. These devices are designed to permit a common mode range-to-ground level with single supply operation. Input offset voltage specifications as low as 2.0 mV make this device an excellent selection for many applications in consumer automotive and industrial electronics.

Features

- Wide Single-Supply Range: 2.0 Vdc to 36 Vdc
- Split-Supply Range: +/-1.0 Vdc to +/-18 Vdc
- Very Low Current Drain Independent of Supply Voltage: 0.4 mA
- Low Input Bias Current: 25 nA
- Low Input Offset Current: 5.0 nA
- Low Input Offset Voltage: 2.0 mV (max) LM393A 5.0 mV (max) LM293/393
- Input Common Mode Range to Ground Level
- Differential Input Voltage Range Equal to Power Supply Voltage
- Output Voltage Compatible with DTL, ECL, TTL, MOS, and CMOS Logic Levels
- ESD Clamps on the Inputs Increase the Ruggedness of the Device without Affecting Performance

For more features, see the data sheet

Part Electrical Specifications

Product	Pricing (\$/Unit)	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
LM293DMR2G	0.1269	Pb-free	Active	2	2	36	16	0.7	1300	5	-25	85	Micro8™
		Halide free											
LM293DR2G	0.0811	Pb-free Halide free	Active	2	2	36	16	0.7	1300	5	-25	85	SOIC-8

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

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