Device Information

CA3290A

Printer Friendly Version

BiMOS Dual Voltage Comparators with MOSFET Input, Bipolar Output

DS Datasheet & Related Docs | Description | Key Features | PT Parametric Data

Ordering Information

Part No.	Status	Temp.	Package
CA3290AE	InActive	Mil	8 Ld PDIP
CA3290AS	InActive	Mil	8 Ld Other

The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

SMD = Standard Microcircuit Drawing

Description

The CA3290A and CA3290 types consist of a dual voltage comparator on a single monolithic chip. The common mode input voltage range includes ground even when operated from a single supply. The low supply current drain makes these comparators suitable for battery operation; their extremely low input currents allow their use in applications that employ sensors with extremely high source impedances. Package options are shown in the table belo

Key Features

- MOSFET Input Stage
  - Very High Input Impedance (Z_{IN}) 1.7TΩ (Typ)
  - Very Low Input Current at V+ = 5V 3.5pA (Typ)
  - Wide Common Mode Input Voltage Range (V_{ICR}) Can Be Swung 1.5V (Typ) Below Negative Supply Voltage Rail
  - Virtually Eliminates Errors Due to Flow of Input Currents
- Output Voltage Compatible with TTL, DTL, ECL, MOS, and CMOS Logic Systems in Most Applications

Related Documentation

DS Datasheet(s):

- BiMOS Dual Voltage Comparators with MOSFET Input, Bipolar Output

PT Parametric Data

Key Spec.	Response Time = 500ns
I_{CC} (mA)	1.35
V_{CC} Range (±V)	2.5 to 15

Applications

- High Source Impedance Voltage Comparators
- Long Time Delay Circuits
- Square Wave Generators
- A/D Converters
- Window Comparators

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