

Low power dual voltage comparator

Features

- Wide single supply voltage range or dual supplies
+2V to +36V or $\pm 1V$ to $\pm 18V$
- Very low supply current : 0.45mA typ. at $V_{CC} = 5V$
- Low input bias current: 20nA typ.
- Low input offset current: 0.5nA typ.
- Low input offset voltage: 0.5mV typ.
- Input common-mode voltage range includes ground
- Low output saturation voltage: 80mV typ. ($I_{sink} = 4mA$)
- Differential input voltage range equal to the supply voltage
- TTL, DTL, ECL, MOS, CMOS compatible outputs
- Internal ESD protection
Human body model (HBM) $\pm 2000V$ typ.

Description

The NJM393C consist of two independent low power voltage comparators designed specifically to operate from a single supply over a wide range of voltages. Operation from split power supplies is also possible.

These comparators also have a unique characteristic in that the input common-mode voltage range includes ground even though operated from a single power supply voltage.