

10115B,F: -30 to +85°C

DIGITAL 10,000 SERIES ECL

DESCRIPTION

The 10115 is a quad differential amplifier designed for use in sensing differential signals over long lines. The base bias supply (V_{BB}) is made available at pin 9 to make the device useful as a Schmitt trigger, or in other applications where a stable reference voltage is necessary.

Active current sources provide the 10115 with excellent common mode noise rejection. If any amplifier in a package is not used, one input must be connected to V_{BB} (pin 9) to prevent upsetting the current source bias network.

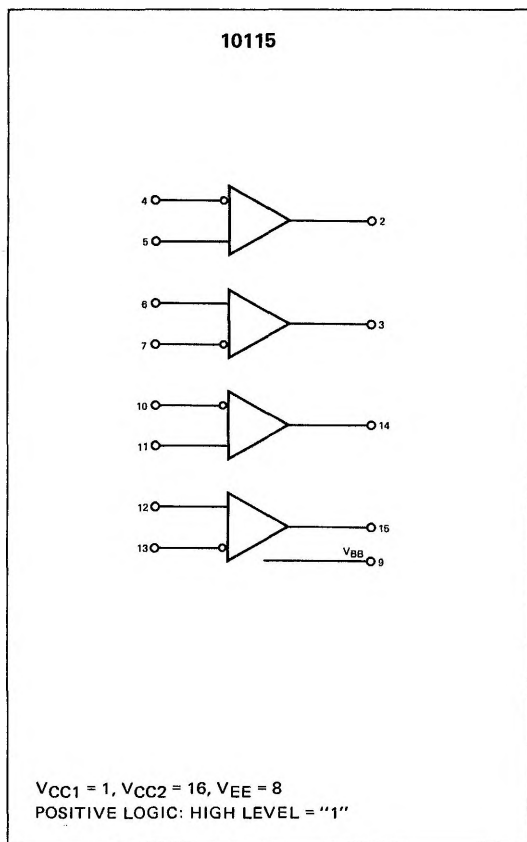
FEATURES

- GOOD COMMON MODE NOISE REJECTION
- FAST PROPAGATION DELAY = 2.0 ns TYP
- LOW POWER DISSIPATION = 100 mW/PACKAGE TYP (NO LOAD)
- HIGH FANOUT CAPABILITY
– CAN DRIVE 50 Ω LINES
- HIGH SYSTEM DENSITY – FOUR RECEIVERS PER PACKAGE
- VERY HIGH INPUT Z – NO 50 K PULLDOWNS
- HIGH IMMUNITY FROM POWER SUPPLY VARIATIONS: $V_{EE} = -5.2 V \pm 5\%$ RECOMMENDED
- OPEN EMITTER LOGIC AND BUSSING CAPABILITY
- V_{BB} VOLTAGE AVAILABLE ON PIN 9

TEMPERATURE RANGE

- -30 to +85°C Operating Ambient

LOGIC DIAGRAM



PACKAGE TYPE

- B: 16-Pin Silicone DIP
- F: 16-Pin CERDIP

CIRCUIT SCHEMATIC

