

10101F: -30 to +85°C

DIGITAL 10,000 SERIES ECL

DESCRIPTION

The 10101 is a high speed 2-input OR/NOR quad gate with complementary outputs. The 10101 is particularly useful as a quad differential line driver.

Each gate has one input connected to pin 12. All inputs are terminated with a 50 kΩ resistor to V_{EE} which eliminates the need to tie unused inputs low. The gate has an excellent speed-power product of 50 picojoules. The 10101 is optimized for high performance logic applications. This gate meets the ECL 10,000 Series standard voltage, current and rise and fall time specifications.

FEATURES

- FAST PROPAGATION DELAY= 20 ns TYP
- COMPLEMENTARY OR/NOR OUTPUTS
- EXCELLENT FOR DRIVING TWISTED PAIRS
- COMMON INPUT FOR GATING
- LOW POWER DISSIPATION = 100 mW/PACKAGE TYP (NO LOAD)
- HIGH FANOUT CAPABILITY
- CAN DRIVE 50 ohm LINES
- HIGH Z INPUTS - INTERNAL 50 kΩ PULLDOWNS
- HIGH IMMUNITY FROM POWER SUPPLY VARIATIONS: V_{EE} = -5.2 V ±5% RECOMMENDED
- OPEN EMITTER LOGIC AND BUSSING CAPABILITY

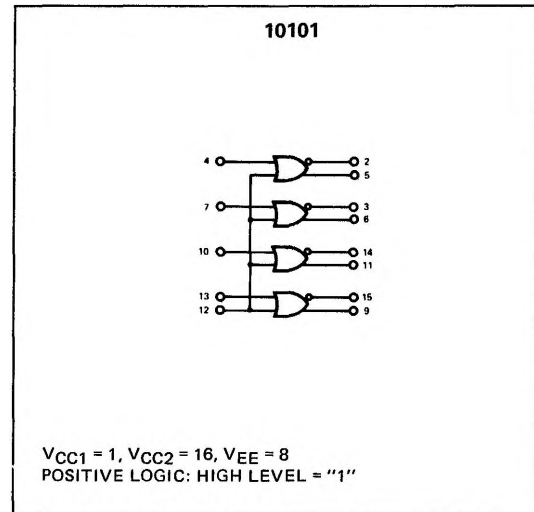
TEMPERATURE RANGE

- -30 to +85°C Operating Ambient

PACKAGE TYPE

- F: 16 Pin CERDIP

LOGIC DIAGRAM



CIRCUIT SCHEMATIC

