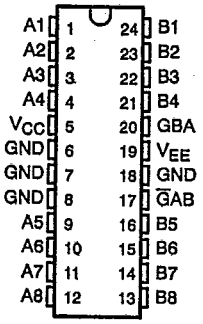
SN10KHT5563, SN100KT5563
OCTAL TTL/ECL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS

T-52-11

D3539, JUNE 1990

- ECL and TTL Output-Enable Inputs
- Flow-Through Architecture Optimizes PCB Layout
- Center-Pin V_{CC}, V_{EE}, and GND Configurations Minimize High-Speed Switching Noise
- Package Options Include "Small Outline" Packages and Standard Plastic 300-mil DIPs

DW OR NT PACKAGE
(TOP VIEW)



description

The SN10KHT5563 and SN100KT5563 are inverting TTL/ECL transceivers designed to translate signals between ECL and TTL environments. The A port (TTL port) is designed to source 15 mA and sink 48 mA. The B port (ECL port) is designed to drive a 50-Ω load terminated to –2 V.

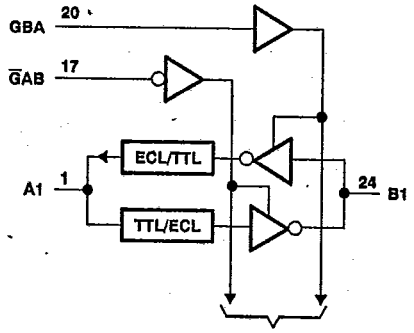
The A and B ports have complementary output-enable inputs, both of which are ECL-compatible. When the A-port output enable (GBA) is high, the device transmits data from the B bus to the A bus; when GBA is low, the A outputs are in the high-impedance state. When $\overline{G}AB$ is low, the device transmits data from the A bus to the B bus; when $\overline{G}AB$ is high, the B outputs are in the high-impedance state.

When GAB is low and $\overline{G}BA$ is high, the device is in the isolation mode.

The SN10KHT5563 is compatible with 10KH ECL and is characterized for operation from 0°C to 75°C.

The SN100KT5563 is compatible with 100K ECL and is characterized for operation from 0°C to 85°C.

logic diagram (positive logic)



PRODUCT PREVIEW