

SN64BCT543
OCTAL REGISTERED BUS TRANSCEIVERS
WITH 3-STATE OUTPUTS

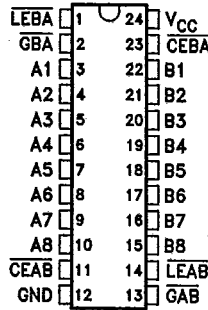
TI0224—D3526, JUNE 1990

T-52-31

PRODUCT PREVIEW

- State-of-the-Art BICMOS Design Significantly Reduces ICCZ
- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- ESD Protection Exceeds 2000 V per MIL-STD-883C, Method 3015
- Package Options Include "Small-Outline" Packages and Standard 300-mil DIPs

DW OR NT PACKAGE
 (TOP VIEW)



description

The SN64BCT543 is a noninverting octal bus transceiver. It contains two sets of D-type latches for temporary storage of data flowing in either direction. Separate latch-enable (\overline{LEAB} and \overline{LEBA}) and output-enable (\overline{GAB} and \overline{GBA}) inputs permit independent control for either direction of data flow.

When the A-to-B chip enable (\overline{CEAB}) is high, the latches are in storage mode and the B outputs are in the high-impedance state. When \overline{CEAB} is low, latch characteristics and B-output functionality are controlled by \overline{LEAB} and \overline{GAB} as follows:

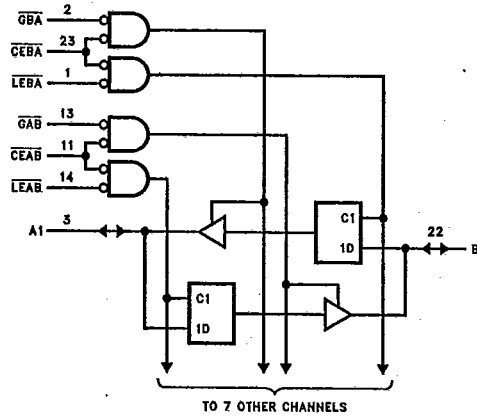
- when \overline{LEAB} is low, the latches are transparent; taking \overline{LEAB} high stores the data present at the A inputs.
- when \overline{GAB} is low, the B outputs are active (high or low logic level) and reflect the data present in the A-to-B latches; when \overline{GAB} is high, the B outputs are in the high-impedance state.

B-to-A data flow is controlled via the \overline{CEBA} , \overline{LEBA} , and \overline{GBA} inputs in a manner analogous to that described above for A-to-B data flow.

The SN64BCT543 features power-up three-state circuitry for hot-card insertion applications.

The SN64BCT543 is characterized for operation from 0°C to 70°C and from -40°C to 125°C.

logic diagram (positive logic)



PRODUCT PREVIEW documents contain information on products in the formative or design phase of development. Characteristic data and other specifications are design goals. Texas Instruments reserves the right to change or discontinue these products without notice.



POST OFFICE BOX 655303 • DALLAS, TEXAS 75265

Copyright © 1990, Texas Instruments Incorporated

12-35