Auto direction sensing dual supply

NTB0101AGW

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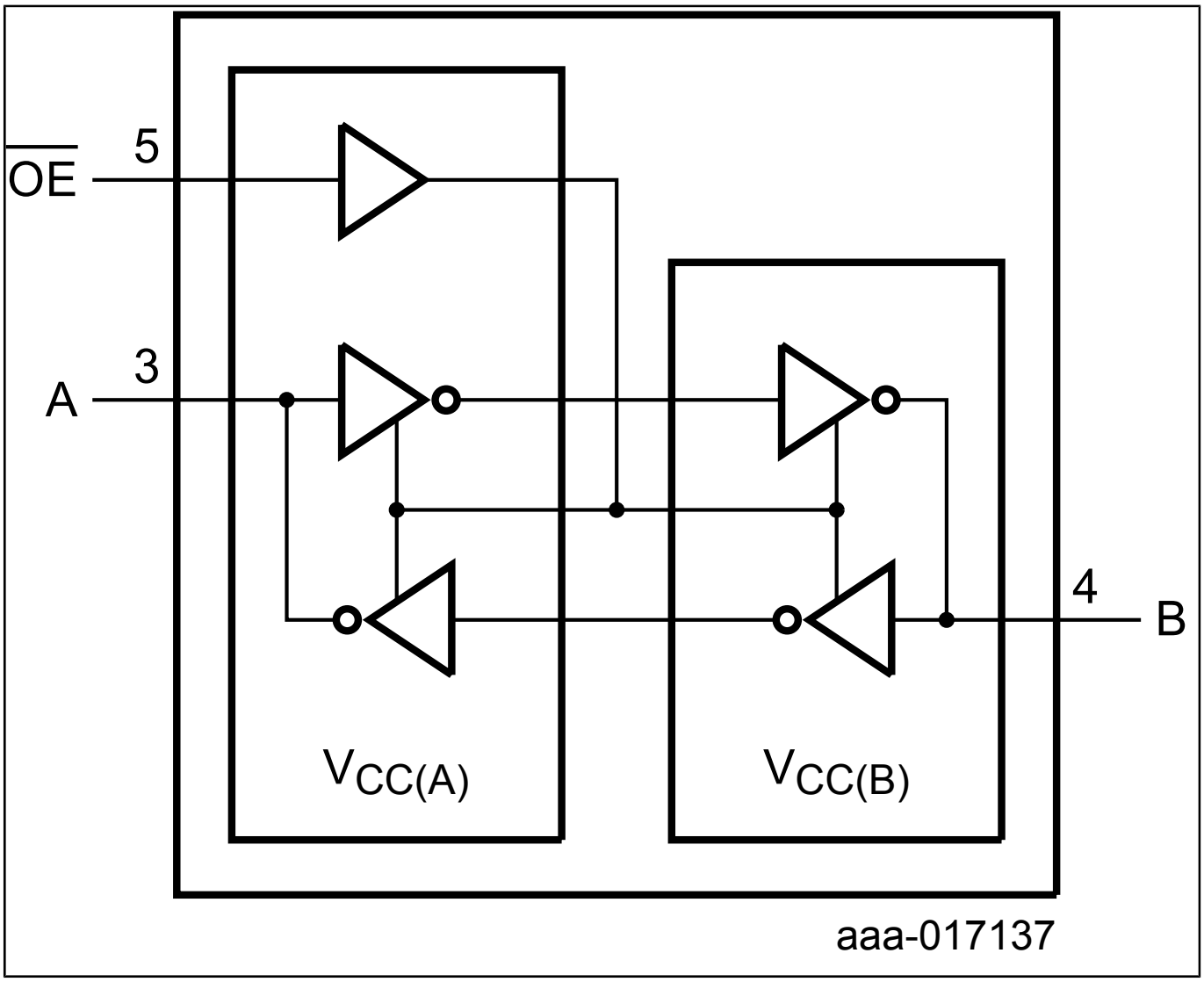
The NTB0101A is a 1-bit, dual supply translating transceiver with auto direction sensing, that enables bidirectional voltage level translation. It consists of two 1-bit I/O ports (A and B), one output enable input (OE) and two supply pins (VCC(A) and VCC(B)). VCC(A) can be supplied at any voltage between 1.2 V and 3.6 V. VCC(B) can be supplied at any voltage between 1.65 V and 5.5 V. This flexibility allows translation between any of the low voltage nodes (1.2 V, 1.5 V, 1.8 V, 2.5 V, 3.3 V and 5.0 V).

Pins A and OE are referenced to VCC(A) and pin B is referenced to VCC(B). A HIGH level at pin OE causes the outputs to assume a high-impedance OFF-state. This device is fully specified for partial power-down applications using IOFF. The IOFF circuitry disables the output, preventing damage of the device due to backflow current, when it is powered down.

NTB0101A Block Diagram Block Diagram



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