

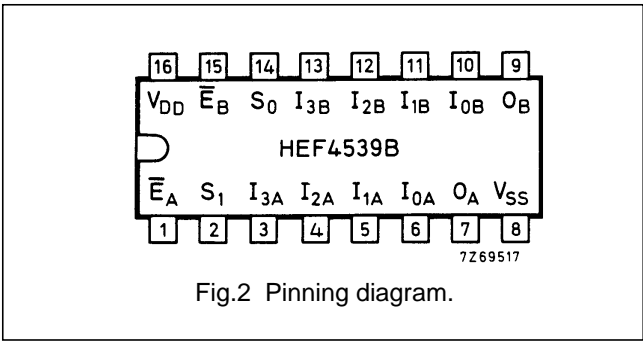
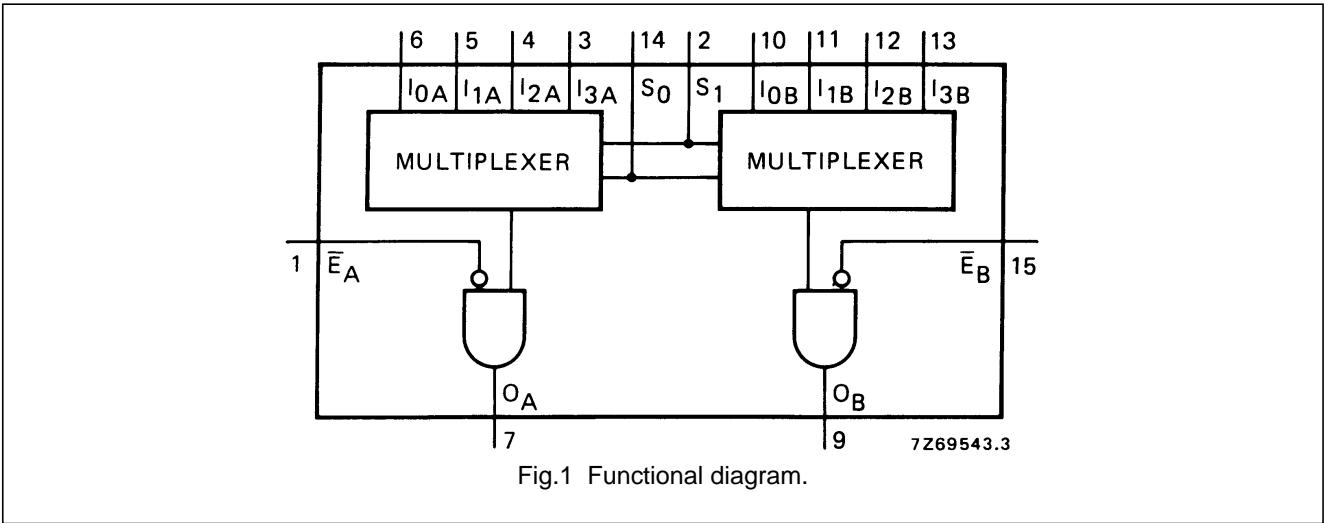
Dual 4-input multiplexer

HEF4539B

MSI

DESCRIPTION

The HEF4539B is a dual 4-input multiplexer with common select logic. Each multiplexer has four multiplexer inputs (I_0 and I_3), an active LOW enable input (\bar{E}) and a multiplexer output (O). When HIGH, \bar{E} forces O of the respective multiplexer LOW, independent of the select inputs (S_0 to S_1) and I_0 to I_3 . When \bar{E} is LOW, S_0 and S_1 determine which multiplexer input (I_0 to I_3) on each of the multiplexers is routed to the respective multiplexer output (O).



PINNING

- | | |
|----------------------------------|----------------------------|
| $I_{0A}, I_{1A}, I_{2A}, I_{3A}$ | multiplexer inputs |
| $I_{0B}, I_{1B}, I_{2B}, I_{3B}$ | multiplexer inputs |
| S_0, S_1 | select inputs |
| \bar{E}_A, \bar{E}_B | enable inputs (active LOW) |
| O_A, O_B | multiplexer outputs |

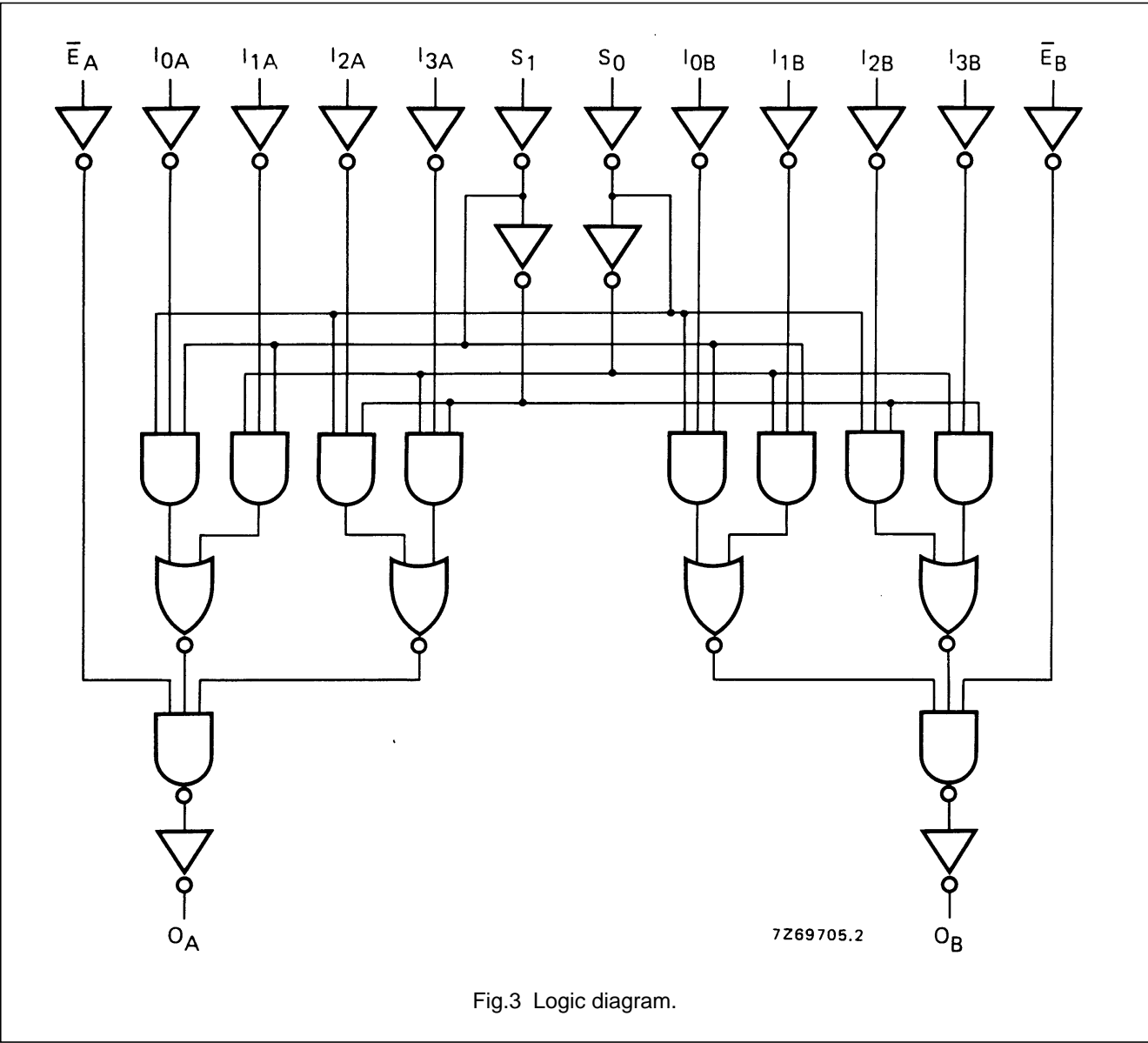
FAMILY DATA, I_{DD} LIMITS category MSI

See Family Specifications

- HEF4539BP(N): 16-lead DIL; plastic
(SOT38-1)
- HEF4539BD(F): 16-lead DIL; ceramic (cerdip)
(SOT74)
- HEF4539BT(D): 16-lead SO; plastic
(SOT109-1)
- (): Package Designator North America

Dual 4-input multiplexer

HEF4539B
MSI



FUNCTION TABLE

INPUTS			OUTPUT
S ₀	S ₁	\bar{E}_n	O _n
X	X	H	L
L	L	L	I ₀
H	L	L	I ₁
L	H	L	I ₂
H	H	L	I ₃

Notes

- 1. H = HIGH state (the more positive voltage)
L = LOW state (the less positive voltage)
X = state is immaterial