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Kind regards,
Team Nexperia

## DATAA SMEET

## CBT3125 <br> Quadruple FET bus switch

## Product data

File under Integrated Circuits - ICL03

## DESCRIPTION

The CBT3125 quadruple FET bus switch features independent line switches. Each switch is disabled when the associated Output Enable ( $\overline{\mathrm{OE}}$ ) input is HIGH.

## FEATURES

- Standard '125-type pinout (D, DB, and PW packages)
- $5 \Omega$ switch connection between two ports
- TTL-compatible input levels
- Latch-up testing is done to JESDEC Standard JESD78 which exceeds 500 mA
- ESD protection exceeds 2000 V HBM per JESD22-A114, 200 V MM per JESD22-A115, and 1000 V CDM per JESD22-C101


## PIN CONFIGURATION



Figure 1. SO14, SSOP14, and TSSOP14


NC = no internal connection
Figure 2. SSOP(QSOP)16

ORDERING INFORMATION

| PACKAGES | TEMPERATURE RANGE | ORDER CODE | DRAWING NUMBER |
| :--- | :---: | :---: | :---: |
| 14-Pin Plastic SO | -40 to $+85^{\circ} \mathrm{C}$ | CBT3125D | SOT108-1 |
| 14-Pin Plastic SSOP | -40 to $+85^{\circ} \mathrm{C}$ | CBT3125DB | SOT337-1 |
| 16-Pin Plastic SSOP(QSOP) | -40 to $+85^{\circ} \mathrm{C}$ | CBT3125DS | SOT519-1 |
| $14-$-Pin Plastic TSSOP | -40 to $+85^{\circ} \mathrm{C}$ | CBT3125PW | SOT402-1 |

[^0]LOGIC DIAGRAM


Pin numbers shown are for 14-pin package-types.
Figure 3. CBT3125 logic diagram (positive logic)

## ABSOLUTE MAXIMUM RATINGS ${ }^{1}$

Over operating free-air temperature range, unless otherwise noted.

| SYMBOL | PARAMETER | CONDITIONS | MIN. | MAX. | UNIT |
| :---: | :--- | :--- | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | supply voltage range |  | -0.5 | 7 | V |
| $\mathrm{~V}_{\mathrm{I}}$ | input voltage range | see Note 2 | -0.5 | 7 | V |
|  | continuous channel current |  | - | 128 | mA |
| $\mathrm{I}_{\mathrm{K}}$ | input clamp current | $\mathrm{V}_{\mathrm{I} / \mathrm{O}}<0$ | - | -50 | mA |
| $\mathrm{~T}_{\text {stg }}$ | storage temperature range |  | -65 | +150 | ${ }^{\circ} \mathrm{C}$ |

## NOTES:

1. Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.
2. The input and output negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
3. The package thermal impedance is calculated in accordance with JESD 51-7.

## RECOMMENDED OPERATING CONDITIONS ${ }^{1}$

| SYMBOL | PARAMETER | CONDITIONS | MIN. | MAX. | UNIT |
| :---: | :--- | :--- | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | supply voltage |  | 4.5 | 5.5 | V |
| $\mathrm{~V}_{\mathrm{IH}}$ | high-level control input voltage |  | 2 | - | V |
| $\mathrm{V}_{\mathrm{IL}}$ | low-level control input voltage |  | - | 0.8 | V |
| $\mathrm{~T}_{\mathrm{amb}}$ | operating ambient temperature in free-air |  | -40 | +85 | ${ }^{\circ} \mathrm{C}$ |

## NOTE:

1. All unused control inputs of the device must be held at $\mathrm{V}_{\mathrm{CC}}$ or GND to ensure proper device operation.

DC ELECTRICAL CHARACTERISTICS
Over recommended operating free-air temperature range, unless otherwise noted.

| SYMBOL | PARAMETER |  | CONDITIONS | MIN. | TYP. ${ }^{1}$ | MAX. | UNIT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{IK}}$ | Input clamp voltage |  | $\begin{aligned} & \mathrm{V}_{\mathrm{CC}}=4.5 \mathrm{~V} ; \\ & \mathrm{I}_{\mathrm{I}}=-18 \mathrm{~mA} \end{aligned}$ | - | - | -1.2 | V |
| I | Input leakage current |  | $\begin{aligned} & \mathrm{V}_{\mathrm{CC}}=5.5 \mathrm{~V} ; \\ & \mathrm{V}_{\mathrm{I}}=5.5 \mathrm{~V} \text { or GND } \end{aligned}$ | - | - | $\pm 1$ | $\mu \mathrm{A}$ |
| $I_{\text {cc }}$ | Quiescent supply current |  | $\begin{aligned} & \mathrm{V}_{\mathrm{CC}}=5.5 \mathrm{~V} ; \mathrm{I}_{\mathrm{O}}=0 ; \\ & \mathrm{V}_{\mathrm{I}}=\mathrm{V}_{\mathrm{CC}} \text { or } G N D \end{aligned}$ | - | - | 3 | $\mu \mathrm{A}$ |
| $\Delta_{\text {l }}$ | Additional supply current per input pin (Note 2) | control inputs | $\mathrm{V}_{\mathrm{CC}}=5.5 \mathrm{~V} ;$ <br> one input at 3.4 V , other inputs at $\mathrm{V}_{\mathrm{CC}}$ or GND | - | - | 2.5 | mA |
| $\mathrm{C}_{1}$ | Input capacitance | control inputs | $\mathrm{V}_{1}=3 \mathrm{~V}$ or 0 | - | 1.7 | - | pF |
| $\mathrm{C}_{\text {IO(OFF) }}$ | Power-off leakage current |  | $\mathrm{V}_{\mathrm{O}}=3 \mathrm{~V}$ or 0; $\overline{\mathrm{OE}}=\mathrm{V}_{\mathrm{CC}}$ | - | 3.4 | - | pF |
| $V_{P}$ | Pass gate voltage |  | $\mathrm{V}_{\mathrm{CC}}=5.0 \mathrm{~V} ; \mathrm{V}_{1}=5.0 \mathrm{~V}$ | - | 3.8 | - | V |
| $r_{\text {on }}$ | On-resistance (Note 3) |  | $\begin{aligned} & \mathrm{V}_{\mathrm{CC}}=4.5 \mathrm{~V} ; \mathrm{V}_{\mathrm{I}}=0 \mathrm{~V} ; \\ & \mathrm{I}_{\mathrm{I}}=64 \mathrm{~mA} \end{aligned}$ | - | 5 | 7 | $\Omega$ |
|  |  |  | $\begin{aligned} & \mathrm{V}_{\mathrm{CC}}=4.5 \mathrm{~V} ; \mathrm{V}_{\mathrm{I}}=0 \mathrm{~V} ; \\ & \mathrm{I}_{\mathrm{I}}=30 \mathrm{~mA} \end{aligned}$ | - | 5 | 7 | $\Omega$ |
|  |  |  | $\begin{aligned} & \mathrm{V}_{\mathrm{CC}}=4.5 \mathrm{~V} ; \mathrm{V}_{\mathrm{I}}=2.4 \mathrm{~V} ; \\ & \mathrm{I}_{\mathrm{I}}=-15 \mathrm{~mA} \end{aligned}$ | - | 10 | 15 | $\Omega$ |

## NOTES:

1. All typical values are at $\mathrm{V}_{\mathrm{CC}}=5 \mathrm{~V}$, unless otherwise noted. $\mathrm{T}_{\mathrm{amb}}=25^{\circ} \mathrm{C}$.
2. This is the increase in supply current for each input that is at the specified TTL voltage level rather than $\mathrm{V}_{\mathrm{CC}}$ or GND.
3. Measured by the voltage drop between the $A$ and the $B$ terminals at the indicated current through the switch. On-state resistance is determined by the lower of the voltages of the two (A or B) terminals.

## AC CHARACTERISTICS

$\mathrm{T}_{\mathrm{amb}}=-40$ to $+85^{\circ} \mathrm{C} ; \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF}$, unless otherwise noted.

| SYMBOL | PARAMETER | FROM (INPUT) | $\begin{gathered} \text { TO } \\ \text { (OUTPUT) } \end{gathered}$ | $\mathrm{V}_{\mathrm{Cc}}=5 \mathrm{~V} \pm 0.5 \mathrm{~V}$ |  | UNIT |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min | Max |  |
| $\mathrm{t}_{\mathrm{pd}}$ | Propagation delay ${ }^{1}$ | $A$ or B | $B$ or A | - | 0.25 | ns |
| $t_{\text {en }}$ | Output enable time to High and Low level | $\overline{O E}$ | A or B | 1.0 | 5.4 | ns |
| $t_{\text {dis }}$ | Output disable time from High and Low level | $\overline{O E}$ | A or B | 1 | 4.7 | ns |

NOTE:

1. This parameter is warranted but not production tested. The propagation delay is based on the RC time constant of the typical on-state resistance of the switch and a load capacitance of 50 pF , when driven by an ideal voltage source (zero output impedance).

## AC WAVEFORMS

$\mathrm{V}_{\mathrm{M}}=1.5 \mathrm{~V}, \mathrm{~V}_{\mathrm{IN}}=\mathrm{GND}$ to 3.0 V

$t_{\text {PLH }}$ and $t_{\text {PHL }}$ are the same as $t_{\text {pd }}$.
Waveform 1. Input to Output Propagation Delays


Note:
Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control.
Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
$t_{\text {PLZ }}$ and $t_{P H Z}$ are the same as $t_{\text {dis }}$.
$t_{P Z L}$ and $t_{P Z H}$ are the same as $t_{\text {en }}$.
Waveform 2. Output Enable and Disable Times

TEST CIRCUIT


## DEFINITIONS

$C_{L}=\quad$ Load capacitance includes jig and probe capacitance; see AC CHARACTERISTICS for value.

SA00012
$t_{P L Z}$ and $t_{P H Z}$ are the same as $t_{\text {dis }}$.
$t_{P Z L}$ and $t_{P Z H}$ are the same as $t_{\text {en }}$.

## NOTES:

1. All input pulses are supplied by generators having the following characteristics: $\mathrm{PRR} \leq 10 \mathrm{MHz}, \mathrm{Z}_{\mathrm{O}}=50 \Omega, \mathrm{t}_{\mathrm{r}} \leq 2.5 \mathrm{~ns}$, $\mathrm{t}_{\mathrm{f}} \leq 2.5 \mathrm{~ns}$.
2. The outputs are measured one at a time with one transition per measurement.


DIMENSIONS (inch dimensions are derived from the original mm dimensions)

| UNIT | A max. | $\mathrm{A}_{1}$ | $\mathrm{A}_{2}$ | $\mathrm{A}_{3}$ | $\mathrm{b}_{\mathrm{p}}$ | c | $\mathrm{D}^{(1)}$ | $E^{(1)}$ | e | $\mathrm{H}_{\mathrm{E}}$ | L | $L_{p}$ | Q | v | w | y | $z^{(1)}$ | $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | 1.75 | $\begin{aligned} & 0.25 \\ & 0.10 \end{aligned}$ | $\begin{aligned} & 1.45 \\ & 1.25 \end{aligned}$ | 0.25 | $\begin{aligned} & 0.49 \\ & 0.36 \end{aligned}$ | $\begin{aligned} & 0.25 \\ & 0.19 \end{aligned}$ | $\begin{aligned} & 8.75 \\ & 8.55 \end{aligned}$ | $\begin{aligned} & 4.0 \\ & 3.8 \end{aligned}$ | 1.27 | $\begin{aligned} & 6.2 \\ & 5.8 \end{aligned}$ | 1.05 | $\begin{aligned} & 1.0 \\ & 0.4 \end{aligned}$ | $\begin{aligned} & 0.7 \\ & 0.6 \end{aligned}$ | 0.25 | 0.25 | 0.1 | $\begin{aligned} & 0.7 \\ & 0.3 \end{aligned}$ | $\begin{aligned} & 8^{0} \\ & 0^{\circ} \end{aligned}$ |
| inches | 0.069 | $\begin{aligned} & 0.010 \\ & 0.004 \end{aligned}$ | $\begin{aligned} & 0.057 \\ & 0.049 \end{aligned}$ | 0.01 | $\begin{aligned} & 0.019 \\ & 0.014 \end{aligned}$ | $\begin{array}{l\|} \hline 0.0100 \\ 0.0075 \end{array}$ | $\begin{aligned} & 0.35 \\ & 0.34 \end{aligned}$ | $\begin{aligned} & 0.16 \\ & 0.15 \end{aligned}$ | 0.050 | $\begin{aligned} & 0.244 \\ & 0.228 \end{aligned}$ | 0.041 | $\begin{aligned} & 0.039 \\ & 0.016 \end{aligned}$ | $\begin{aligned} & 0.028 \\ & 0.024 \end{aligned}$ | 0.01 | 0.01 | 0.004 | $\begin{aligned} & 0.028 \\ & 0.012 \end{aligned}$ |  |

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

| OUTLINE VERSION | REFERENCES |  |  | EUROPEAN PROJECTION | ISSUE DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | IEC | JEDEC | EIAJ |  |  |
| SOT108-1 | 076E06 | MS-012 |  | $\square \oplus$ | $\begin{aligned} & 97-05-22 \\ & 99-12-27 \end{aligned}$ |



detail X


DIMENSIONS ( mm are the original dimensions)

| UNIT | $\begin{gathered} A \\ \text { max. } \end{gathered}$ | $\mathrm{A}_{1}$ | $\mathrm{A}_{2}$ | $\mathrm{A}_{3}$ | $\mathrm{b}_{\mathrm{p}}$ | c | $\mathrm{D}^{(1)}$ | $E^{(1)}$ | e | $\mathrm{H}_{\mathrm{E}}$ | L | $L_{p}$ | Q | v | w | y | $Z^{(1)}$ | $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | 2.0 | $\begin{aligned} & 0.21 \\ & 0.05 \end{aligned}$ | $\begin{aligned} & 1.80 \\ & 1.65 \end{aligned}$ | 0.25 | $\begin{aligned} & 0.38 \\ & 0.25 \end{aligned}$ | $\begin{aligned} & 0.20 \\ & 0.09 \end{aligned}$ | $\begin{aligned} & \hline 6.4 \\ & 6.0 \end{aligned}$ | $\begin{aligned} & 5.4 \\ & 5.2 \end{aligned}$ | 0.65 | $\begin{aligned} & 7.9 \\ & 7.6 \end{aligned}$ | 1.25 | $\begin{aligned} & \hline 1.03 \\ & 0.63 \end{aligned}$ | $\begin{aligned} & 0.9 \\ & 0.7 \end{aligned}$ | 0.2 | 0.13 | 0.1 | 1.4 0.9 | $8^{0}$ $0^{\circ}$ |

Note

1. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

| OUTLINE VERSION | REFERENCES |  |  | EUROPEAN PROJECTION | ISSUE DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | IEC | JEDEC | EIAJ |  |  |
| SOT337-1 |  | MO-150 |  | - ( | $\begin{aligned} & -96-01-10 \\ & 99-12-27 \end{aligned}$ |



DIMENSIONS ( mm are the original dimensions)

| UNIT | $\begin{gathered} \mathrm{A} \\ \max . \end{gathered}$ | $\mathrm{A}_{1}$ | $\mathrm{A}_{2}$ | $\mathrm{A}_{3}$ | $b_{p}$ | c | $\mathrm{D}^{(1)}$ | $E^{(1)}$ | e | $\mathrm{H}_{\mathrm{E}}$ | L | $\mathrm{L}_{\mathrm{p}}$ | v | w | y | $Z^{(1)}$ | $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | 1.73 | $\begin{aligned} & 0.25 \\ & 0.10 \end{aligned}$ | $\begin{aligned} & 1.55 \\ & 1.40 \end{aligned}$ | 0.25 | $\begin{aligned} & 0.31 \\ & 0.20 \end{aligned}$ | $\begin{aligned} & 0.25 \\ & 0.18 \end{aligned}$ | $\begin{aligned} & 5.0 \\ & 4.8 \end{aligned}$ | $\begin{aligned} & 4.0 \\ & 3.8 \end{aligned}$ | 0.635 | $\begin{aligned} & \hline 6.2 \\ & 5.8 \end{aligned}$ | 1.0 | $\begin{aligned} & 0.89 \\ & 0.41 \end{aligned}$ | 0.2 | 0.18 | 0.09 | $\begin{aligned} & 0.18 \\ & 0.05 \end{aligned}$ | $8^{0}$ 0 |

Note

1. Plastic or metal protrusions of 0.20 mm maximum per side are not included.

| OUTLINE <br> VERSION | REFERENCES |  |  |  | EUROPEAN <br> PROJECTION | ISSUE DATE |
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|  | IEC | JEDEC | EIAJ |  |  |  |
| SOT519-1 |  |  |  |  |  |  |


detail X


DIMENSIONS (mm are the original dimensions)

| UNIT | $\mathbf{A}$ <br> $\mathbf{m a x}$. | $\mathbf{A}_{\mathbf{1}}$ | $\mathbf{A}_{\mathbf{2}}$ | $\mathbf{A}_{\mathbf{3}}$ | $\mathbf{b}_{\mathbf{p}}$ | $\mathbf{c}$ | $\mathbf{D}^{(1)}$ | $\mathbf{E}^{(2)}$ | $\mathbf{e}$ | $\mathbf{H}_{\mathbf{E}}$ | $\mathbf{L}$ | $\mathbf{L}_{\mathbf{p}}$ | $\mathbf{Q}$ | $\mathbf{v}$ | $\mathbf{w}$ | $\mathbf{y}$ | $\mathbf{Z}^{(1)}$ | $\theta$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| mm | 1.10 | 0.15 | 0.95 | 0.25 | 0.30 | 0.2 | 5.1 | 4.5 | 0.6 | 6.6 | 1.0 | 0.75 | 0.4 | 0.2 | 0.13 | 0.1 | 0.72 | $8^{0}$ |
| 0.05 | 0.80 | 0.19 | 0.1 | 4.9 | 4.3 | 0.68 | 6.2 |  | 0.50 | 0.3 | 0.2 | 0.3 |  |  |  |  |  |  |

Notes

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

| OUTLINE VERSION | REFERENCES |  |  | EUROPEAN PROJECTION | ISSUE DATE |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | IEC | JEDEC | EIAJ |  |  |
| SOT402-1 |  | MO-153 |  | $\square$ (+) | $\begin{aligned} & -95-04-04 \\ & 99-12-27 \end{aligned}$ |

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