**Buffer Cell**

1. **Input pin capacitances:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input Pins** | **Rise Cap (pF)** | **Fall Cap (pF)** | **Average Cap (pF)** |
| A | .003528 | .003516 | .003522 |

1. **Transition Time Table:**

**(i) Output Rise Transitions** **(in ns)** [Input slew vs output capacitance].

**Related pin A**: (i.e., other input pins are held constant)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | .01549078 | .01565665 | .03138671 |
| **10 fF** | .06212826 | .06214823 | .06978824 |
| **100 fF** | .5290079 | .5290077 | .5296012 |

**(ii) Output Fall Transitions** **(in ns)** [Input slew vs output capacitance].

**Related pin A**: (i.e., other input pins are held constant)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | .01527414 | .01550377 | .02905106 |
| **10 fF** | .06476159 | .06480329 | .07287203 |
| **100 fF** | .5512988 | .5512986 | .5523527 |

1. **Propagation delay time tables**:

**(i) Cell Rise Delay (in ns)** [Input slew vs output capacitance].

**Related pin A**: (i.e., other input pins are held constant)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | .04819688 | .06660410 | .1436864 |
| **10 fF** | .08438690 | .1027055 | .1908150 |
| **100 fF** | .4024414 | .4209267 | .5296012 |

**(ii) Cell Fall Delay (in ns)** [Input slew vs output capacitance].

**Related pin A**: (i.e., other input pins are held constant)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | .04765232 | .06889500 | .1588248 |
| **10 fF** | .09085455 | .1121903 | .2122752 |
| **100 fF** | .4647023 | .4864241 | .5895047 |

1. **Static Power:**

|  |  |
| --- | --- |
| **Condition (A)** | **Power (nW)** |
| 0 | 0.1873344 |
| 1 | 0.2970653 |

1. **Dynamic Power Table:**

**(i) Rise Power (in nW)** [Input slew vs output capacitance].

**Related pin A**: (i.e., other input pins are held constant)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 125.45 | 70.123 | 33.672 |
| **10 fF** | 101.634 | 220.05 | 169.631 |
| **100 fF** | 312.55 | 515.653 | 236.01 |

**(ii) Fall Power (in nW)** [Input slew vs output capacitance].

**Related pin A**: (i.e., other input pins are held constant)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **10 ps** | **100 ps** | **1000 ps** |
| **0.5 fF** | 97.187 | 101.297 | 74.133 |
| **10 fF** | 130.0005 | 439.65 | 199.218 |
| **100 fF** | 394.05 | 513.69 | 310.156 |