Latch

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test scenario | D | Clk | Q | Nq |
|  | 1 | 0 | X | X |
| 1 | 1 | 1 | 1 | 0 |
| 2 | 0 | 1 | 0 | 1 |
| 3 | 0 | 0 | 0 | 1 |
| 4 | 1 | 0 | 0 | 1 |

Tff

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test scenario | T | Clk | Clear | Q |
|  | 0 | 0 | 1 | X |
| 1 | 1 | 0 | 1 | 0 |
| 2 | 1 | 0 | 0 | 0 |
| 3 | 1 | 1 | 0 | 1 |
| 4 | 0 | 1 | 0 | 1 |
| 5 | 0 | 0 | 0 | 1 |
| 6 | 0 | 1 | 0 | 1 |
| 7 | 0 | 1 | 1 | 0 |
| 8 | 1 | 1 | 1 | 0 |
|  |  |  |  |  |