|  |  |
| --- | --- |
| State | Representation |
| A | 000 |
| B | 010 |
| C | 011 |
| D | 111 |
| E | 110 |
| F | 101 |
| G | 100 |

|  |  |  |  |
| --- | --- | --- | --- |
| Current State | Next State  w = 0 w = 1 | | Output(Z) |
| 000 | 000 | 010 | 0 |
| 010 | 000 | 011 | 0 |
| 011 | 110 | 111 | 0 |
| 111 | 110 | 101 | 0 |
| 110 | 000 | 100 | 0 |
| 101 | 110 | 101 | 1 |
| 100 | 000 | 011 | 1 |