

### AS4C64M16D1-6TCN/TIN vs AS4C64M16D1A-6TCN/TIN Comparison

| Part Number & result<br>Parameter  | AS4C64M16D1-6TCN/TIN                   | AS4C64M16D1A-6TCN/TIN<br>(rev.A)       | Comparison Result   |
|------------------------------------|----------------------------------------|----------------------------------------|---------------------|
| <b>Product Description</b>         | DDR1 SDRAM                             | DDR1 SDRAM                             | Same                |
| <b>Capacity</b>                    | 1Gb (64M x 16)                         | 1Gb (64M x 16)                         | Same                |
| <b>Memory Organization</b>         | 16M, x16 bits, x4 banks                | 16M, x16 bits, x4 banks                | Same                |
| <b>Operating Power Supply</b>      | VDD/Q = 2.5V ± 0.2V                    | VDD/Q = 2.5V ± 0.2V                    | Same                |
| <b>Operating Temperature</b>       | Industrial (-40°C to 85°C)             | Industrial (-40°C to 85°C)             | Same                |
| <b>Max. Clock Frequency</b>        | 166MHz                                 | 166MHz                                 | Same                |
| <b>Clock Cycle time "tCK" (ns)</b> | 6                                      | 6                                      | Same                |
| <b>CAS Latency</b>                 | 2,2.5 & 3                              | 2,2.5 & 3                              | Same                |
| <b>Burst Length</b>                | 2,4,8                                  | 2,4,8                                  | Same                |
| <b>tRCD &amp; tRP (ns)</b>         | 15                                     | 15                                     | Same                |
| <b>Row Address</b>                 | A0-A13                                 | A0-A13                                 | Same                |
| <b>Column Address</b>              | A0-A9                                  | A0-A9                                  | Same                |
| <b>Average Refresh Period</b>      | 8192cycles/64ms                        | 8192cycles/64ms                        | Same                |
| <b>Pin to Pin Compatible</b>       | Pin to Pin Compatible                  |                                        | Same                |
| <b>AC/DC Characteristics</b>       | Same                                   | Same                                   | Meet JEDEC          |
| <b>IDD Specification</b>           |                                        |                                        |                     |
| <b>IDD Spec conditions</b>         | -40C ≤ Ta ≤ 85C<br>VDD/Q = 2.5V ± 0.2V | -40C ≤ Ta ≤ 85C<br>VDD/Q = 2.5V ± 0.2V |                     |
| <b>IDD0 (mA)</b>                   | 85                                     | 160                                    | No A version better |
| <b>IDD1 (mA)</b>                   | 105                                    | 180                                    | No A version better |
| <b>IDD2P (mA)</b>                  | 6                                      | 10                                     | No A version better |
| <b>IDD2F (mA)</b>                  | 30                                     | 70                                     | No A version better |
| <b>IDD2Q (mA)</b>                  | 25                                     | 70                                     | No A version better |
| <b>IDD3P (mA)</b>                  | 15                                     | 40                                     | No A version better |
| <b>IDD3N (mA)</b>                  | 35                                     | 130                                    | No A version better |
| <b>IDD4R (mA)</b>                  | 115                                    | 260                                    | No A version better |
| <b>IDD4W (mA)</b>                  | 145                                    | 260                                    | No A version better |
| <b>IDD5 (mA)</b>                   | 185                                    | 280                                    | No A version better |
| <b>IDD6 (mA)</b>                   | 3                                      | 12                                     | No A version better |
| <b>IDD7 (mA)</b>                   | 230                                    | 420                                    | No A version better |
| <b>Package</b>                     | 66 Pin TSOP II,<br>0.65mm pin pitch    | 66 Pin TSOP II,<br>0.65mm pin pitch    | Same                |
| <b>Package Material</b>            | Pb & Halogen Free                      | Pb & Halogen Free                      | Same                |