

**NAND Flash Memory(SLC Middle Capacity)**

Product list of NAND Flash Memory SLC Middle Capacity

| Capacity<br>bit | Tech.<br>Node<br>nm | Page<br>Size<br>bit | Block<br>Size<br>bit | Power<br>Supply<br>V | Operating<br>Temperature<br>°C | I/O | Package                   | Part Number     | Access Time     |               | Program<br>/Erase Time<br>typ. |               |
|-----------------|---------------------|---------------------|----------------------|----------------------|--------------------------------|-----|---------------------------|-----------------|-----------------|---------------|--------------------------------|---------------|
|                 |                     |                     |                      |                      |                                |     |                           |                 | Serial<br>cycle | 1st<br>access | Program<br>Time                | Erase<br>Time |
|                 |                     |                     |                      |                      |                                |     |                           |                 | min<br>ns       | typ<br>µs     | µs                             | ms            |
| 512M            | 43                  | 2048<br>+64<br>× 8  | 128K<br>+4K<br>× 8   | 2.7<br>to<br>3.6     | 0<br>to<br>70                  | x8  | TSOP I 48-P-1220-<br>0.50 | TC58NVM9S3ETA00 | 25              | 25            | 300                            | 2.5           |
|                 |                     |                     |                      |                      | TC58NVM9S3ETA10                |     |                           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-TFBGA63-0911-<br>0.80CZ      |     | TC58NVM9S3EBAI4           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-VFBGA67-0608-<br>0.80-001    |     | TC58NVM9S3EBAI6           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-TFBGA63-0911-<br>0.80CZ      |     | TC58NYM9S3EBAI4           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-VFBGA67-0608-<br>0.80-001    |     | TC58NYM9S3EBAI6           | 25              | 25              | 300           | 2.5                            |               |
| 1G              | 43                  | 2048<br>+64<br>× 8  | 128K<br>+4K<br>× 8   | 2.7<br>to<br>3.6     | 0<br>to<br>70                  | x8  | TSOP I 48-P-1220-<br>0.50 | TC58DVG02D5TA00 | 25              | 25            | 300                            | 2.5           |
|                 |                     |                     |                      |                      | TC58DVG02D5TA10                |     |                           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-TFBGA63-0911-<br>0.80CZ      |     | TC58DVG02D5BAI4           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-VFBGA67-0608-<br>0.80-001    |     | TC58DVG02D5BAI6           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-TFBGA63-0911-<br>0.80CZ      |     | TC58DYG02D5BAI4           | 25              | 25              | 300           | 2.5                            |               |
|                 |                     |                     |                      |                      | P-VFBGA67-0608-<br>0.80-001    |     | TC58DYG02D5BAI6           | 25              | 25              | 300           | 2.5                            |               |

|                    |                             |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
|--------------------|-----------------------------|-----------------------------|--------------------|-----------------------------|-----------------|---------------------------|---------------------------|-----------------|-----|-----|-----|-----|--|--|--|--|
|                    | 24                          | 2048<br>+128<br>× 8         | 128K<br>+8K<br>× 8 | 2.7<br>to<br>3.6            | 0<br>to<br>70   | x8                        | TSOP I 48-P-1220-<br>0.50 | TC58NVG0S3HTA00 | 25  | 25  | 300 | 3.5 |  |  |  |  |
|                    |                             |                             |                    |                             | -40<br>to<br>85 |                           |                           | TC58NVG0S3HTAI0 | 25  | 25  | 300 | 3.5 |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           | P-TFBGA63-0911-<br>0.80CZ | TC58NVG0S3HBAI4 | 25  | 25  | 300 | 3.5 |  |  |  |  |
|                    |                             |                             |                    | P-VFBGA67-0608-<br>0.80-001 |                 |                           | TC58NVG0S3HBAI6           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    |                             |                             |                    | P-TFBGA63-0911-<br>0.80CZ   |                 |                           | TC58NYG0S3HBAI4           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    |                             |                             |                    | P-VFBGA67-0608-<br>0.80-001 |                 |                           | TC58NYG0S3HBAI6           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    |                             |                             |                    | 2.7<br>to<br>3.6            | 0<br>to<br>70   | x8                        | TSOP I 48-P-1220-<br>0.50 | TC58NVG1S3ETA00 | 25  | 25  | 300 | 2.5 |  |  |  |  |
|                    |                             |                             |                    |                             | -40<br>to<br>85 |                           |                           | TC58NVG1S3ETAI0 | 25  | 25  | 300 | 2.5 |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           |                           | TC58NVG1S3EBAI4 | 25  | 25  | 300 | 2.5 |  |  |  |  |
|                    |                             |                             |                    | TC58NYG1S3EBAI4             |                 |                           |                           | 25              | 25  | 300 | 2.5 |     |  |  |  |  |
|                    |                             |                             |                    | 1.70<br>to<br>1.95          |                 |                           | P-TFBGA63-0911-<br>0.80CZ |                 |     |     |     |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
| 2G                 | 43                          | 2048<br>+64<br>× 8          | 128K<br>+4K<br>× 8 | 2.7<br>to<br>3.6            | 0<br>to<br>70   | x8                        | TSOP I 48-P-1220-<br>0.50 | TC58NVG1S3HTA00 | 25  | 25  | 300 | 3.5 |  |  |  |  |
|                    |                             |                             |                    |                             | -40<br>to<br>85 |                           |                           | TC58NVG1S3HTAI0 | 25  | 25  | 300 | 3.5 |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           | TC58NVG1S3HBAI6           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           | TC58NYG1S3HBAI6           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    | 1.70<br>to<br>1.95          | P-VFBGA67-0608-<br>0.80-001 |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
| 24                 | 2048<br>+128<br>× 8         | 128K<br>+8K<br>× 8          | 2.7<br>to<br>3.6   | 0<br>to<br>70               | x8              | TSOP I 48-P-1220-<br>0.50 | TC58NVG1S3HTA00           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    |                             |                             |                    | -40<br>to<br>85             |                 |                           | TC58NVG1S3HTAI0           | 25              | 25  | 300 | 3.5 |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 | TC58NVG1S3HBAI6           | 25                        | 25              | 300 | 3.5 |     |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 | TC58NYG1S3HBAI6           | 25                        | 25              | 300 | 3.5 |     |     |  |  |  |  |
| 1.70<br>to<br>1.95 | P-VFBGA67-0608-<br>0.80-001 |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
| 4G                 | 43                          | 2048<br>+64<br>× 8          | 128K<br>+4K<br>× 8 | 2.7<br>to<br>3.6            | 0<br>to<br>70   | x8                        | TSOP I 48-P-1220-<br>0.50 | TC58NVG2S3ETA00 | 25  | 30  | 300 | 2.5 |  |  |  |  |
|                    |                             |                             |                    |                             | -40<br>to<br>85 |                           |                           | TC58NVG2S3ETAI0 | 25  | 30  | 300 | 2.5 |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           | TC58NVG2S3EBAI5           | 25              | 30  | 300 | 2.5 |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           | TC58NYG2S3EBAI5           | 25              | 30  | 300 | 2.5 |     |  |  |  |  |
|                    | 1.70<br>to<br>1.95          | P-TFBGA63-1013-<br>0.80AZ   |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |
|                    |                             |                             |                    | 2.7<br>to                   | 0<br>to<br>70   |                           | TSOP I 48-P-1220-<br>0.50 | TC58NVG2S0FTA00 | 25  | 30  | 300 | 3   |  |  |  |  |
|                    |                             |                             |                    |                             |                 |                           |                           |                 |     |     |     |     |  |  |  |  |

|  |    |                     |                     |                    |          |    |                            |                 |    |    |     |   |
|--|----|---------------------|---------------------|--------------------|----------|----|----------------------------|-----------------|----|----|-----|---|
|  | 32 | 4096<br>+224<br>x 8 | 256K<br>+14K<br>x 8 | 3.6                |          | x8 |                            | TC58NVG2S0FTA10 | 25 | 30 | 300 | 3 |
|  |    |                     |                     |                    | -40      |    |                            | TC58NVG2S0FBA14 | 25 | 30 | 300 | 3 |
|  |    |                     |                     | 1.70<br>to<br>1.95 | to<br>85 |    | P-TFBGA63-0911 -<br>0.80CZ | TC58NYG2S0FBA14 | 25 | 30 | 300 | 3 |

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