



#### **REVISION HISTORY**

| <b><u>Revision</u></b> | <b><u>Description</u></b>                                                                                                                                                                                                                                                                                                                      | <b><u>Issue Date</u></b> |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Rev. 1.0               | Initial Issue                                                                                                                                                                                                                                                                                                                                  | Aug.1.2007               |
| Rev. 1.1               | Revised $V_{IH}$ to TTL compatible                                                                                                                                                                                                                                                                                                             | Jan.9.2008               |
| Rev. 1.2               | Revised $I_{DR}$ (TYP.)                                                                                                                                                                                                                                                                                                                        | Feb.22.2008              |
| Rev. 1.3               | Revised $V_{IH}$ to $0.7 \cdot V_{CC}$                                                                                                                                                                                                                                                                                                         | May.6.2008               |
| Rev. 1.4               | Revised $V_{DR}$                                                                                                                                                                                                                                                                                                                               | Mar.3.2009               |
| Rev. 1.5               | Revised <b><u>FEATURES &amp; ORDERING INFORMATION</u></b><br><b><u>Lead free and green package available to Green package available</u></b><br>Added packing type in <b><u>ORDERING INFORMATION</u></b><br>Deleted $T_{SOLDER}$ in <b><u>ABSOLUTE MAXIMUM RATINGS</u></b><br>Revised <b><u>PACKAGE OUTLINE DIMENSION</u></b> in page9/10/12/13 | May.6.2010               |
| Rev. 1.6               | Revised <b><u>ORDERING INFORMATION</u></b> in page 14                                                                                                                                                                                                                                                                                          | Aug.30.2010              |
| Rev. 1.7               | Added SL Grade<br>Deleted E Grade<br>Revised $I_{SB1}/I_{DR}$                                                                                                                                                                                                                                                                                  | Aug.9.2011               |
| Rev. 1.8               | Deleted <b><u>WRITE CYCLE</u></b> Notes :<br>1.WE#, CE# must be high or CE2 must be low during all address transitions in page 7                                                                                                                                                                                                               | Jun.29.2016              |
| Rev. 1.9               | Removed Package Type : PDIP/BGA                                                                                                                                                                                                                                                                                                                | Apr.08. 2019             |
| Rev. 1.10              | Revised <b><u>ORDERING INFORMATION</u></b> in page 11<br>32 Pin(450mil) SOP PackingType : Tube→Tray                                                                                                                                                                                                                                            | Aug.24.2023              |
| Rev. 1.11              | Revised Typo error of <b><u>PACKAGE OUTLINE DIMENSION</u></b> :<br>32 pin 8mm x 20mm TSOP I L1 in page 9                                                                                                                                                                                                                                       | Aug.11.2025              |

### FEATURES

- Fast access time : 55/70ns
- Low power consumption:  
Operating current : 20/18mA (TYP.)  
Standby current : 1μA (TYP.)
- Single 2.7V ~ 5.5V power supply
- All outputs TTL compatible
- Fully static operation
- Tri-state output
- Data retention voltage : 1.5V (MIN.)
- **Green package available**
- Package : 32-pin 450 mil SOP  
32-pin 8mm x 20mm TSOP I  
32-pin 8mm x 13.4mm sTSP

### GENERAL DESCRIPTION

The LY62W2568 is a 2,097,152-bit low power CMOS static random access memory organized as 262,144 words by 8 bits. It is fabricated using very high performance, high reliability CMOS technology. Its standby current is stable within the range of operating temperature.

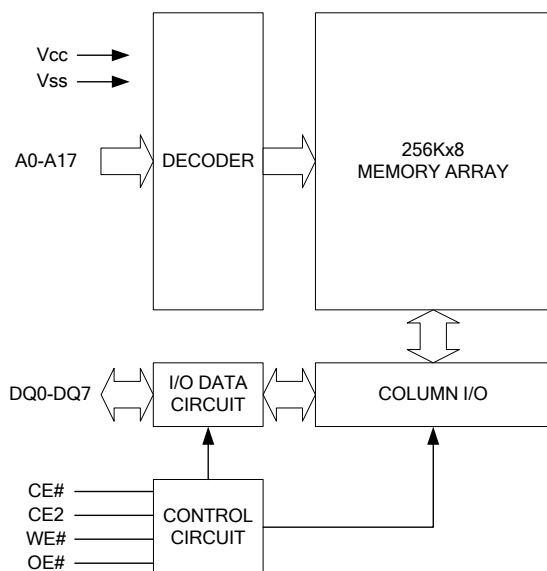
The LY62W2568 is well designed for very low power system applications, and particularly well suited for battery back-up nonvolatile memory application.

The LY62W2568 operates from a single power supply of 2.7V ~ 5.5V and all outputs are fully TTL compatible

### PRODUCT FAMILY

| Product Family | Operating Temperature | Vcc Range  | Speed   | Power Dissipation  |                     |
|----------------|-----------------------|------------|---------|--------------------|---------------------|
|                |                       |            |         | Standby(Isb1,TYP.) | Operating(Icc,TYP.) |
| LY62W2568      | 0 ~ 70°C              | 2.7 ~ 5.5V | 55/70ns | 1μA                | 20/18mA             |
| LY62W2568(I)   | -40 ~ 85°C            | 2.7 ~ 5.5V | 55/70ns | 1μA                | 20/18mA             |

### FUNCTIONAL BLOCK DIAGRAM

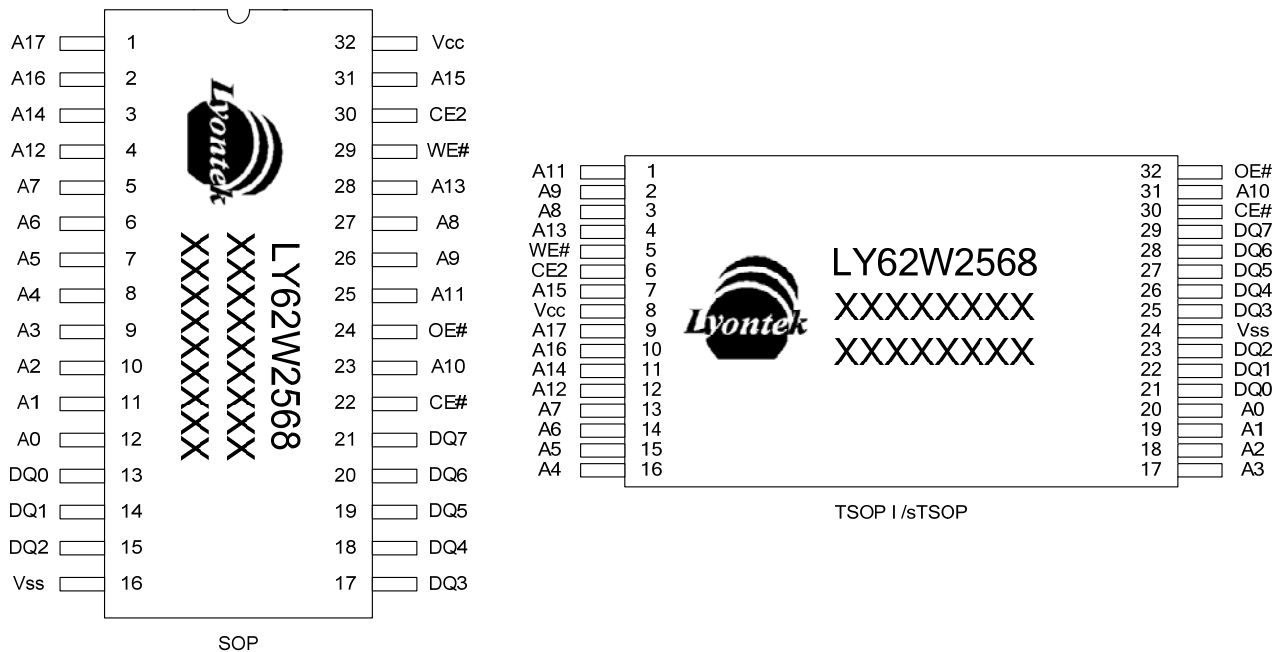


### PIN DESCRIPTION

| SYMBOL    | DESCRIPTION         |
|-----------|---------------------|
| A0 - A17  | Address Inputs      |
| DQ0 – DQ7 | Data Inputs/Outputs |
| CE#, CE2  | Chip Enable Inputs  |
| WE#       | Write Enable Input  |
| OE#       | Output Enable Input |
| Vcc       | Power Supply        |
| Vss       | Ground              |
| NC        | No Connection       |



#### PIN CONFIGURATION



#### ABSOLUTE MAXIMUM RATINGS\*

| PARAMETER                                | SYMBOL           | RATING             | UNIT |
|------------------------------------------|------------------|--------------------|------|
| Voltage on Vcc relative to Vss           | V <sub>T1</sub>  | -0.5 to 6.5        | V    |
| Voltage on any other pin relative to Vss | V <sub>T2</sub>  | -0.5 to Vcc+0.5    | V    |
| Operating Temperature                    | T <sub>A</sub>   | 0 to 70(C grade)   | °C   |
|                                          |                  | -40 to 85(I grade) |      |
| Storage Temperature                      | T <sub>STG</sub> | -65 to 150         | °C   |
| Power Dissipation                        | P <sub>D</sub>   | 1                  | W    |
| DC Output Current                        | I <sub>OUT</sub> | 50                 | mA   |

\*Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device or any other conditions above those indicated in the operational sections of this specification is not implied. Exposure to the absolute maximum rating conditions for extended period may affect device reliability.

#### TRUTH TABLE

| MODE           | CE# | CE2 | OE# | WE# | I/O OPERATION    | SUPPLY CURRENT                     |
|----------------|-----|-----|-----|-----|------------------|------------------------------------|
| Standby        | H   | X   | X   | X   | High-Z           | I <sub>SB1</sub>                   |
|                | X   | L   | X   | X   | High-Z           | I <sub>SB1</sub>                   |
| Output Disable | L   | H   | H   | H   | High-Z           | I <sub>CC</sub> , I <sub>CC1</sub> |
| Read           | L   | H   | L   | H   | D <sub>OUT</sub> | I <sub>CC</sub> , I <sub>CC1</sub> |
| Write          | L   | H   | X   | L   | D <sub>IN</sub>  | I <sub>CC</sub> , I <sub>CC1</sub> |

Note: H = V<sub>IH</sub>, L = V<sub>IL</sub>, X = Don't care.



#### DC ELECTRICAL CHARACTERISTICS

| PARAMETER                              | SYMBOL                        | TEST CONDITION                                                                                                                                       |                                                                                          | MIN.                | TYP. <sup>*4</sup> | MAX.                 | UNIT |    |
|----------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------|--------------------|----------------------|------|----|
| Supply Voltage                         | V <sub>CC</sub>               |                                                                                                                                                      |                                                                                          | 2.7                 | 3.0                | 5.5                  | V    |    |
| Input High Voltage                     | V <sub>IH</sub> <sup>*1</sup> |                                                                                                                                                      |                                                                                          | 0.7*V <sub>CC</sub> | -                  | V <sub>CC</sub> +0.3 | V    |    |
| Input Low Voltage                      | V <sub>IL</sub> <sup>*2</sup> |                                                                                                                                                      |                                                                                          | - 0.2               | -                  | 0.6                  | V    |    |
| Input Leakage Current                  | I <sub>LI</sub>               | V <sub>CC</sub> ≥ V <sub>IN</sub> ≥ V <sub>SS</sub>                                                                                                  |                                                                                          | - 1                 | -                  | 1                    | μA   |    |
| Output Leakage Current                 | I <sub>LO</sub>               | V <sub>CC</sub> ≥ V <sub>OUT</sub> ≥ V <sub>SS</sub> ,<br>Output Disabled                                                                            |                                                                                          | - 1                 | -                  | 1                    | μA   |    |
| Output High Voltage                    | V <sub>OH</sub>               | I <sub>OH</sub> = -1mA                                                                                                                               |                                                                                          | 2.4                 | 2.7                | -                    | V    |    |
| Output Low Voltage                     | V <sub>OL</sub>               | I <sub>OL</sub> = 2mA                                                                                                                                |                                                                                          | -                   | -                  | 0.4                  | V    |    |
| Average Operating Power supply Current | I <sub>CC</sub>               | Cycle time = Min.<br>CE# = V <sub>IL</sub> and CE2 = V <sub>IH</sub> ,<br>I <sub>I/O</sub> = 0mA<br>Other pins at V <sub>IL</sub> or V <sub>IH</sub> | - 55                                                                                     | -                   | 20                 | 60                   | mA   |    |
|                                        |                               |                                                                                                                                                      | - 70                                                                                     | -                   | 18                 | 50                   | mA   |    |
|                                        | I <sub>CC1</sub>              | Cycle time = 1μs<br>CE# = 0.2V and CE2 ≥ V <sub>CC</sub> -0.2V,<br>I <sub>I/O</sub> = 0mA<br>Other pins at 0.2V or V <sub>CC</sub> - 0.2V            | -                                                                                        | 4                   | 10                 | mA                   |      |    |
|                                        | Standby Power Supply Current  | I <sub>SB1</sub>                                                                                                                                     | CE# ≥ V <sub>CC</sub> -0.2V<br>or CE2 ≤ 0.2V<br>Others at 0.2V or V <sub>CC</sub> - 0.2V | LL/LLI              | -                  | 1                    | 50   | μA |
| SL <sup>*5</sup>                       |                               |                                                                                                                                                      |                                                                                          | 25°C                | -                  | 1                    | 5    | μA |
| SLI <sup>*5</sup>                      |                               |                                                                                                                                                      |                                                                                          | 40°C                | -                  | 1                    | 5    | μA |
| SL                                     |                               |                                                                                                                                                      |                                                                                          | -                   | 1                  | 20                   | μA   |    |
| SLI                                    |                               |                                                                                                                                                      |                                                                                          | -                   | 1                  | 25                   | μA   |    |

Notes:

1. V<sub>IH</sub>(max) = V<sub>CC</sub> + 3.0V for pulse width less than 10ns.
2. V<sub>IL</sub>(min) = V<sub>SS</sub> - 3.0V for pulse width less than 10ns.
3. Over/Undershoot specifications are characterized, not 100% tested.
4. Typical values are included for reference only and are not guaranteed or tested.  
Typical values are measured at V<sub>CC</sub> = V<sub>CC</sub>(TYP.) and T<sub>A</sub> = 25°C
5. This parameter is measured at V<sub>CC</sub> = 3.0V

#### CAPACITANCE (T<sub>A</sub> = 25°C, f = 1.0MHz)

| PARAMETER                | SYMBOL           | MIN. | MAX | UNIT |
|--------------------------|------------------|------|-----|------|
| Input Capacitance        | C <sub>IN</sub>  | -    | 6   | pF   |
| Input/Output Capacitance | C <sub>I/O</sub> | -    | 8   | pF   |

Note : These parameters are guaranteed by device characterization, but not production tested.

#### AC TEST CONDITIONS

|                                          |                                                                           |
|------------------------------------------|---------------------------------------------------------------------------|
| Input Pulse Levels                       | 0.2V to V <sub>CC</sub> - 0.2V                                            |
| Input Rise and Fall Times                | 3ns                                                                       |
| Input and Output Timing Reference Levels | 1.5V                                                                      |
| Output Load                              | C <sub>L</sub> = 30pF + 1TTL, I <sub>OH</sub> /I <sub>OL</sub> = -2mA/4mA |



### **AC ELECTRICAL CHARACTERISTICS**

#### **(1) READ CYCLE**

| PARAMETER                          | SYM.               | LY62W2568-55 |      | LY62W2568-70 |      | UNIT |
|------------------------------------|--------------------|--------------|------|--------------|------|------|
|                                    |                    | MIN.         | MAX. | MIN.         | MAX. |      |
| Read Cycle Time                    | t <sub>RC</sub>    | 55           | -    | 70           | -    | ns   |
| Address Access Time                | t <sub>AA</sub>    | -            | 55   | -            | 70   | ns   |
| Chip Enable Access Time            | t <sub>ACE</sub>   | -            | 55   | -            | 70   | ns   |
| Output Enable Access Time          | t <sub>OE</sub>    | -            | 30   | -            | 35   | ns   |
| Chip Enable to Output in Low-Z     | t <sub>CLZ</sub> * | 10           | -    | 10           | -    | ns   |
| Output Enable to Output in Low-Z   | t <sub>OLZ</sub> * | 5            | -    | 5            | -    | ns   |
| Chip Disable to Output in High-Z   | t <sub>CHZ</sub> * | -            | 20   | -            | 25   | ns   |
| Output Disable to Output in High-Z | t <sub>OHZ</sub> * | -            | 20   | -            | 25   | ns   |
| Output Hold from Address Change    | t <sub>OH</sub>    | 10           | -    | 10           | -    | ns   |

#### **(2) WRITE CYCLE**

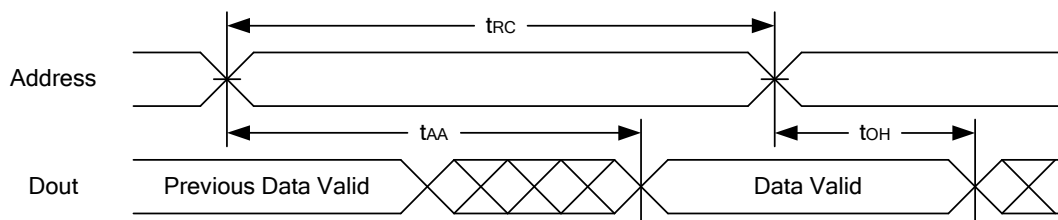
| PARAMETER                        | SYM.               | LY62W2568-55 |      | LY62W2568-70 |      | UNIT |
|----------------------------------|--------------------|--------------|------|--------------|------|------|
|                                  |                    | MIN.         | MAX. | MIN.         | MAX. |      |
| Write Cycle Time                 | t <sub>WC</sub>    | 55           | -    | 70           | -    | ns   |
| Address Valid to End of Write    | t <sub>AW</sub>    | 50           | -    | 60           | -    | ns   |
| Chip Enable to End of Write      | t <sub>CW</sub>    | 50           | -    | 60           | -    | ns   |
| Address Set-up Time              | t <sub>AS</sub>    | 0            | -    | 0            | -    | ns   |
| Write Pulse Width                | t <sub>WP</sub>    | 45           | -    | 55           | -    | ns   |
| Write Recovery Time              | t <sub>WR</sub>    | 0            | -    | 0            | -    | ns   |
| Data to Write Time Overlap       | t <sub>DW</sub>    | 25           | -    | 30           | -    | ns   |
| Data Hold from End of Write Time | t <sub>DH</sub>    | 0            | -    | 0            | -    | ns   |
| Output Active from End of Write  | t <sub>OW</sub> *  | 5            | -    | 5            | -    | ns   |
| Write to Output in High-Z        | t <sub>WHZ</sub> * | -            | 20   | -            | 25   | ns   |

\*These parameters are guaranteed by device characterization, but not production tested.

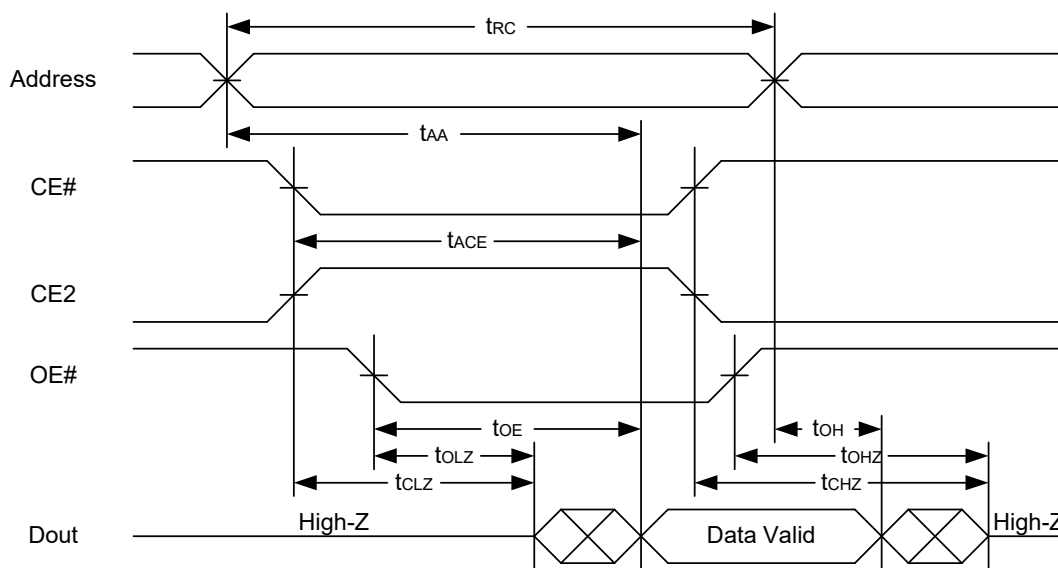


## TIMING WAVEFORMS

### READ CYCLE 1 (Address Controlled) (1,2)



### READ CYCLE 2 (CE# and CE2 and OE# Controlled) (1,3,4,5)

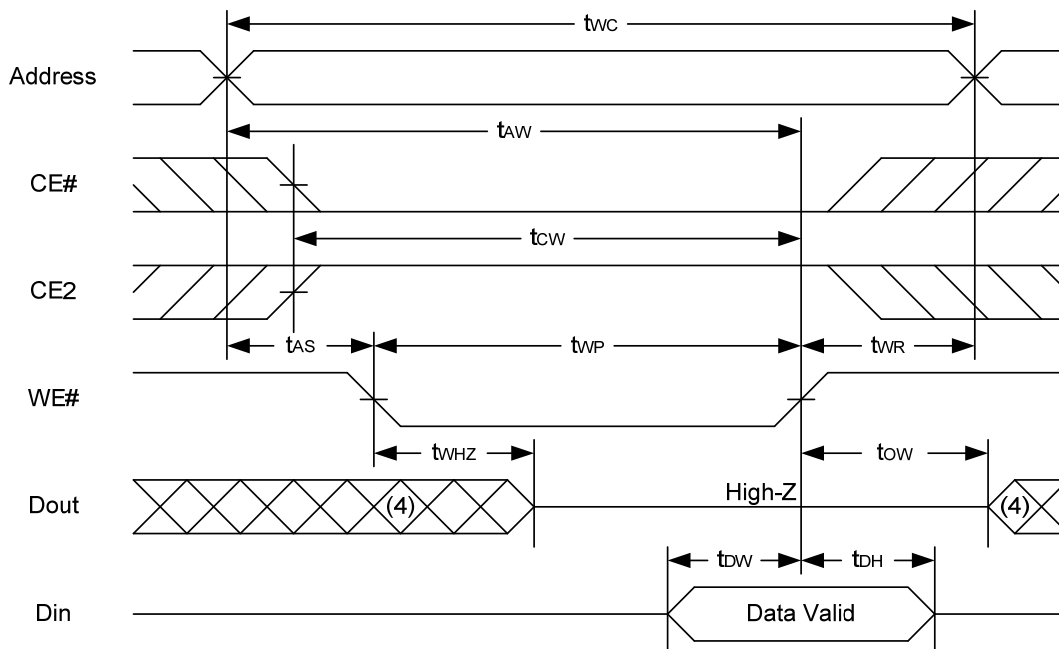


#### Notes :

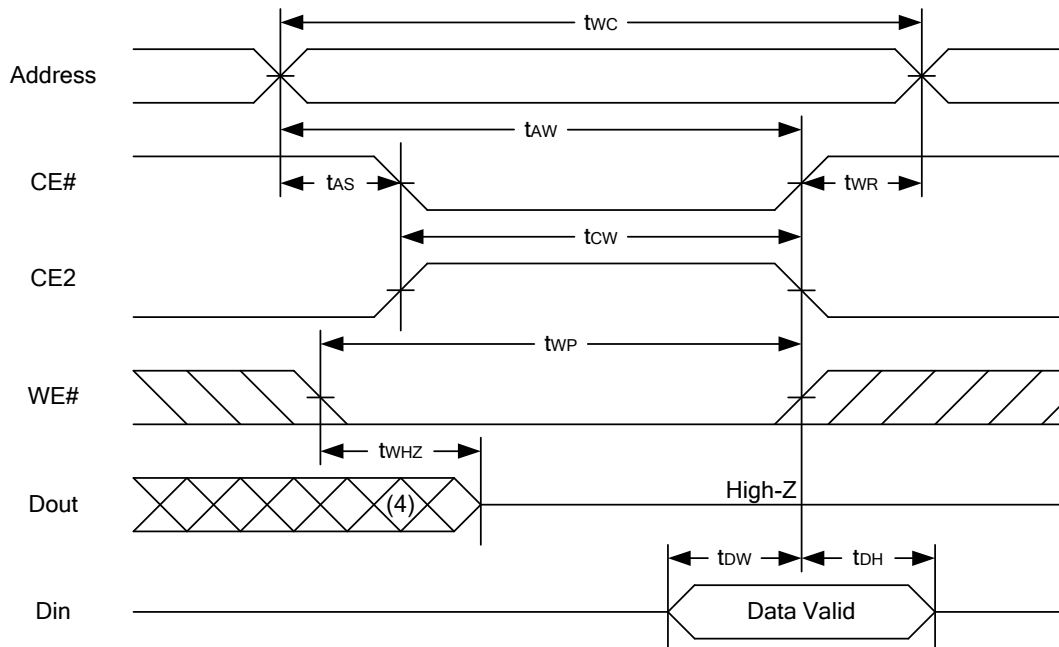
1. WE# is high for read cycle.
2. Device is continuously selected OE# = low, CE# = low, CE2 = high.
3. Address must be valid prior to or coincident with CE# = low, CE2 = high; otherwise  $t_{AA}$  is the limiting parameter.
4.  $t_{CLZ}$ ,  $t_{OLZ}$ ,  $t_{CHZ}$  and  $t_{OHZ}$  are specified with  $C_L = 5pF$ . Transition is measured  $\pm 500mV$  from steady state.
5. At any given temperature and voltage condition,  $t_{CHZ}$  is less than  $t_{CLZ}$ ,  $t_{OHZ}$  is less than  $t_{OLZ}$ .



#### WRITE CYCLE 1 (WE# Controlled) (1,2,4,5)



#### WRITE CYCLE 2 (CE# and CE2 Controlled) (1,4,5)



#### Notes :

1. A write occurs during the overlap of a low CE#, high CE2, low WE#.
2. During a WE#-controlled write cycle with OE# low, twp must be greater than twhz + tow to allow the drivers to turn off and data to be placed on the bus.
3. During this period, I/O pins are in the output state, and input signals must not be applied.
4. If the CE# low transition and CE2 high transition occurs simultaneously with or after WE# low transition, the outputs remain in a high impedance state.
5. tow and twhz are specified with CL = 5pF. Transition is measured  $\pm 500\text{mV}$  from steady state.



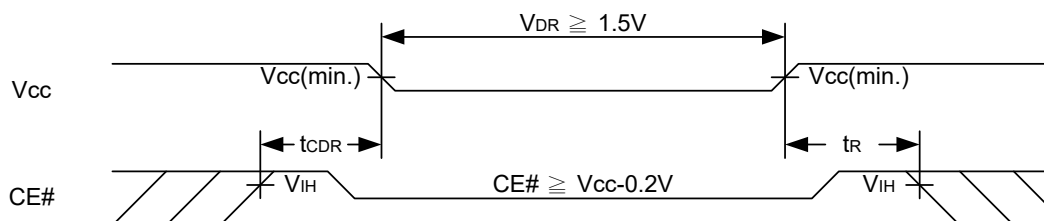
### DATA RETENTION CHARACTERISTICS

| PARAMETER                           | SYMBOL           | TEST CONDITION                                       | MIN.              | TYP. | MAX. | UNIT        |
|-------------------------------------|------------------|------------------------------------------------------|-------------------|------|------|-------------|
| V <sub>CC</sub> for Data Retention  | V <sub>DR</sub>  | CE# $\geq$ V <sub>CC</sub> - 0.2V or CE2 $\leq$ 0.2V | 1.5               | -    | 5.5  | V           |
| Data Retention Current              | I <sub>DR</sub>  | V <sub>CC</sub> = 1.5V                               | LL/LLI            | -    | 0.5  | 20 $\mu$ A  |
|                                     |                  | CE# $\geq$ V <sub>CC</sub> - 0.2V                    | SL                | 25°C | -    | 0.5 $\mu$ A |
|                                     |                  | or CE2 $\leq$ 0.2V                                   | SLI               | 40°C | -    | 0.5 $\mu$ A |
|                                     |                  | Other pins at 0.2V or V <sub>CC</sub> -0.2V          | SL/SLI            | -    | 0.5  | 15 $\mu$ A  |
| Chip Disable to Data Retention Time | t <sub>CDR</sub> | See Data Retention Waveforms (below)                 | 0                 | -    | -    | ns          |
| Recovery Time                       | t <sub>R</sub>   |                                                      | t <sub>RC</sub> * | -    | -    | ns          |

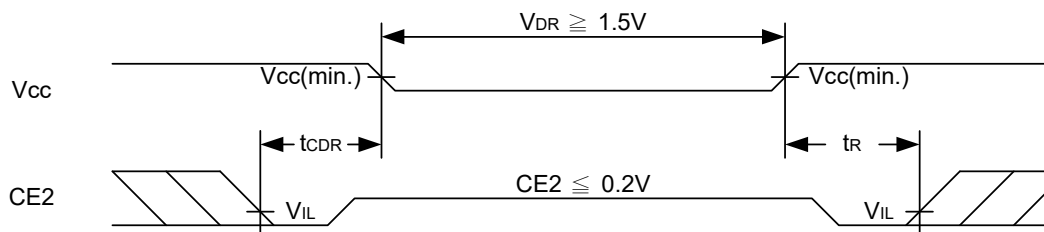
t<sub>RC</sub>\* = Read Cycle Time

### DATA RETENTION WAVEFORM

#### Low V<sub>CC</sub> Data Retention Waveform (1) (CE# controlled)



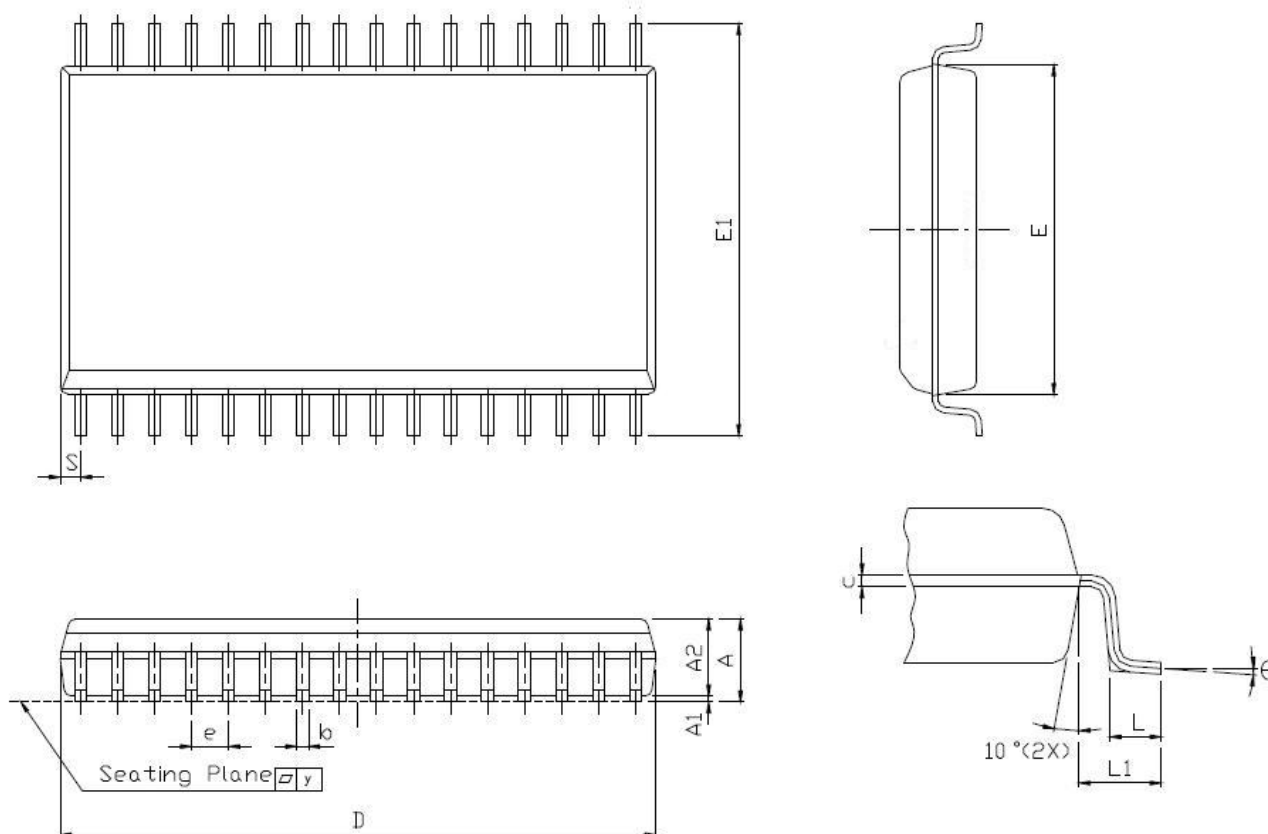
#### Low V<sub>CC</sub> Data Retention Waveform (2) (CE2 controlled)





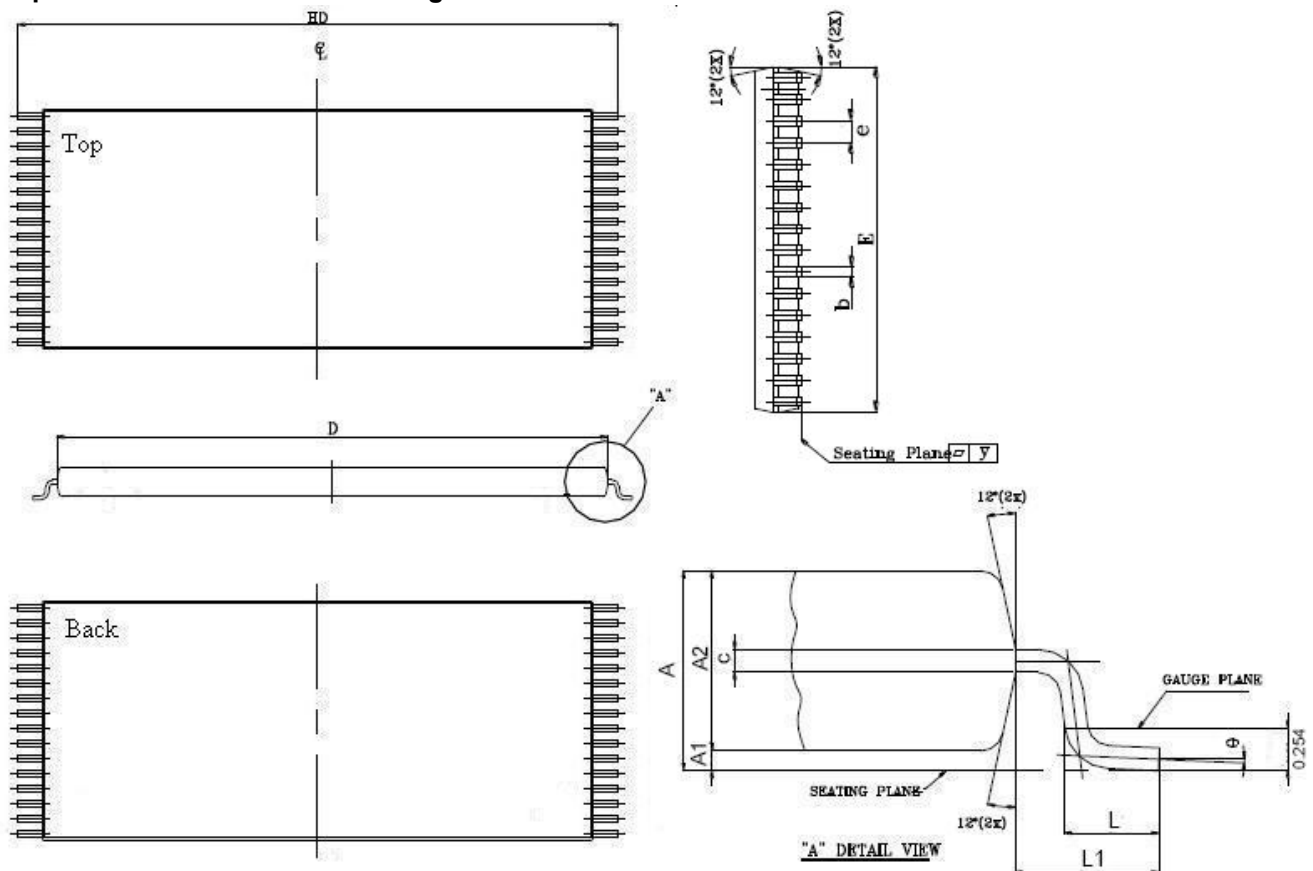
#### PACKAGE OUTLINE DIMENSION

##### 32 pin 450 mil SOP Package Outline Dimension



| SYM. | UNIT | INCH.(BASE) | MM(REF)      |
|------|------|-------------|--------------|
| A    |      | 0.120(MAX)  | 3.048(MAX)   |
| A1   |      | 0.004(MIN)  | 0.102(MIN)   |
| A2   |      | 0.116(MAX)  | 2.946(MAX)   |
| b    |      | 0.016(TYP)  | 0.406(TYP)   |
| c    |      | 0.008(TYP)  | 0.203(TYP)   |
| D    |      | 0.817(MAX)  | 20.75(MAX)   |
| E    |      | 0.445±0.006 | 11.303±0.152 |
| E1   |      | 0.555±0.025 | 14.097±0.635 |
| e    |      | 0.050(TYP)  | 1.270(TYP)   |
| L    |      | 0.033±0.017 | 0.838±0.432  |
| L1   |      | 0.055±0.008 | 1.397±0.203  |
| S    |      | 0.026(MAX)  | 0.660(MAX)   |
| y    |      | 0.004(MAX)  | 0.101(MAX)   |
| Θ    |      | 0° -10°     | 0° -10°      |

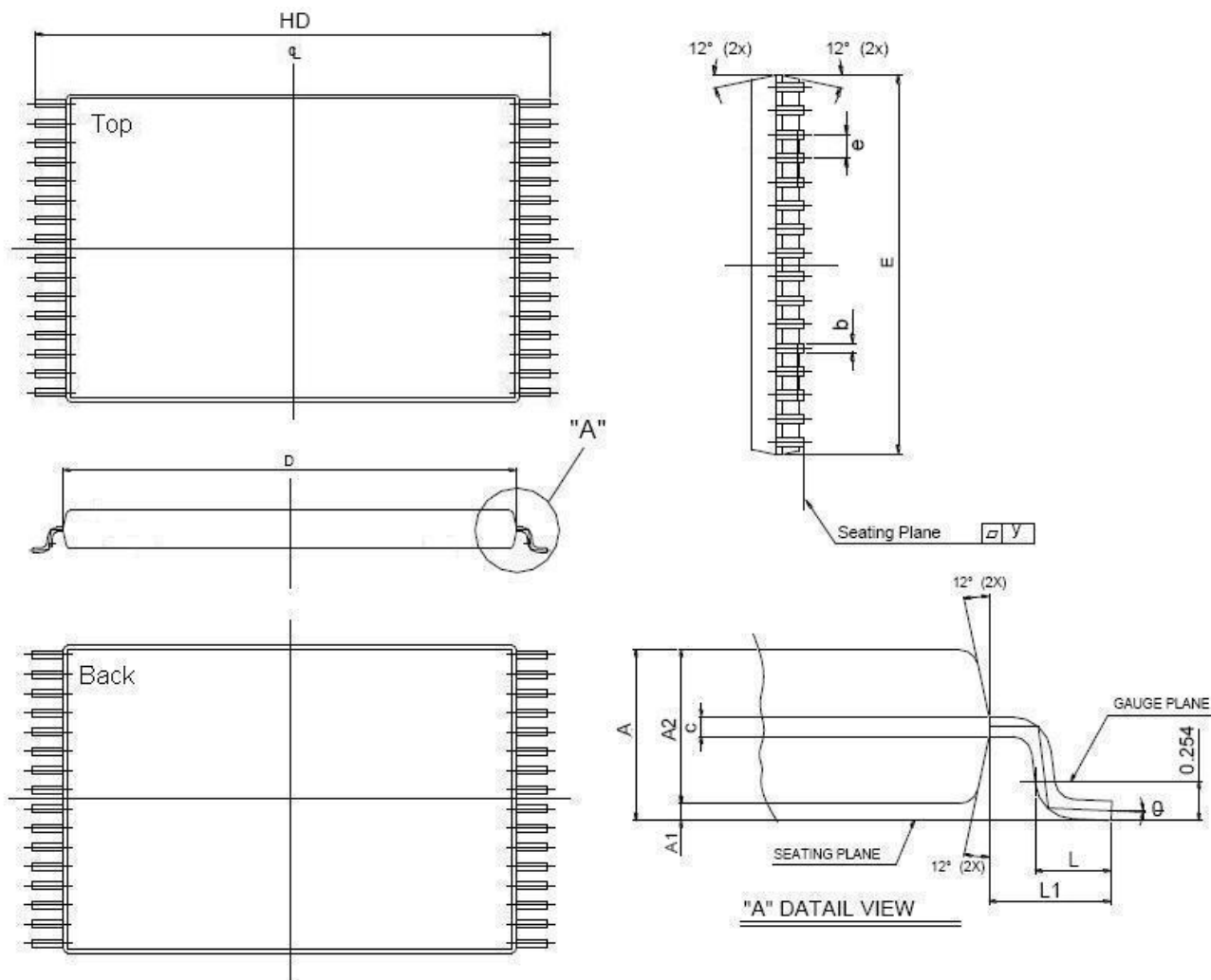
#### 32 pin 8mm x 20mm TSOP I Package Outline Dimension



| SYM. | UNIT | INCH(BASE)   | MM(REF)      |
|------|------|--------------|--------------|
| A    |      | 0.047 (MAX)  | 1.20 (MAX)   |
| A1   |      | 0.004 ±0.002 | 0.10 ±0.05   |
| A2   |      | 0.039 ±0.002 | 1.00 ±0.05   |
| b    |      | 0.009 ±0.002 | 0.22 ±0.05   |
| c    |      | 0.006 ±0.002 | 0.155 ±0.055 |
| D    |      | 0.724 ±0.008 | 18.40 ±0.20  |
| E    |      | 0.315 ±0.008 | 8.00 ±0.20   |
| e    |      | 0.020 (TYP)  | 0.50 (TYP)   |
| HD   |      | 0.787 ±0.008 | 20.00 ±0.20  |
| L    |      | 0.024 ±0.004 | 0.60 ±0.10   |
| L1   |      | 0.031 REF    | 0.8 REF      |
| y    |      | 0.003 (MAX)  | 0.08 (MAX)   |
| Θ    |      | 0°~5°        | 0°~5°        |



#### 32 pin 8mm x 13.4mm sTSP Package Outline Dimension



| SYM. | UNIT | INCH(BASE)   | MM(REF)      |
|------|------|--------------|--------------|
| A    |      | 0.049 (MAX)  | 1.25 (MAX)   |
| A1   |      | 0.004 ±0.002 | 0.10 ±0.05   |
| A2   |      | 0.039 ±0.002 | 1.00 ±0.05   |
| b    |      | 0.009 ±0.002 | 0.22 ±0.05   |
| c    |      | 0.006 ±0.002 | 0.155 ±0.055 |
| D    |      | 0.465 ±0.008 | 11.80 ±0.20  |
| E    |      | 0.315 ±0.008 | 8.00 ±0.20   |
| e    |      | 0.020 (TYP)  | 0.50 (TYP)   |
| HD   |      | 0.528±0.008  | 13.40 ±0.20. |
| L    |      | 0.02 ±0.008  | 0.50 ±0.20   |
| L1   |      | 0.031 ±0.005 | 0.8 ±0.125   |
| y    |      | 0.003 (MAX)  | 0.076 (MAX)  |
| Θ    |      | 0°~5°        | 0°~5°        |



#### ORDERING INFORMATION

| Package Type         | Access Time<br>(Speed)(ns) | Power Type                 | Temperature<br>Range(°C) | Packing<br>Type | Lyontek Item No.   |
|----------------------|----------------------------|----------------------------|--------------------------|-----------------|--------------------|
| 32Pin(450mil)<br>SOP | 55                         | Special Ultra Low<br>Power | 0°C~70°C                 | Tray            | LY62W2568SL-55SL   |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-55SLT  |
|                      |                            |                            | -40°C~85°C               | Tray            | LY62W2568SL-55SLI  |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-55SLIT |
|                      |                            | Ultra Low Power            | 0°C~70°C                 | Tray            | LY62W2568SL-55LL   |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-55LLT  |
|                      |                            |                            | -40°C~85°C               | Tray            | LY62W2568SL-55LLI  |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-55LLIT |
|                      | 70                         | Special Ultra Low<br>Power | 0°C~70°C                 | Tray            | LY62W2568SL-70SL   |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-70SLT  |
|                      |                            |                            | -40°C~85°C               | Tray            | LY62W2568SL-70SLI  |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-70SLIT |
|                      |                            | Ultra Low Power            | 0°C~70°C                 | Tray            | LY62W2568SL-70LL   |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-70LLT  |
|                      |                            |                            | -40°C~85°C               | Tray            | LY62W2568SL-70LLI  |
|                      |                            |                            |                          | Tape Reel       | LY62W2568SL-70LLIT |



### ORDERING INFORMATION

| Package Type                  | Access Time<br>(Speed)(ns) | Power Type                 | Temperature<br>Range(°C) | Packing<br>Type | Lyontek Item No.   |
|-------------------------------|----------------------------|----------------------------|--------------------------|-----------------|--------------------|
| 32Pin<br>(8mmx20mm)<br>TSOP I | 55                         | Special Ultra Low<br>Power | 0°C~70°C                 | Tray            | LY62W2568LL-55SL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-55SLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568LL-55SLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-55SLIT |
|                               |                            | Ultra Low Power            | 0°C~70°C                 | Tray            | LY62W2568LL-55LL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-55LLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568LL-55LLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-55LLIT |
|                               | 70                         | Special Ultra Low<br>Power | 0°C~70°C                 | Tray            | LY62W2568LL-70SL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-70SLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568LL-70SLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-70SLIT |
|                               |                            | Ultra Low Power            | 0°C~70°C                 | Tray            | LY62W2568LL-70LL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-70LLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568LL-70LLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568LL-70LLIT |



### ORDERING INFORMATION

| Package Type                  | Access Time<br>(Speed)(ns) | Power Type                 | Temperature<br>Range(°C) | Packing<br>Type | Lyontek Item No.   |
|-------------------------------|----------------------------|----------------------------|--------------------------|-----------------|--------------------|
| 32Pin<br>(8mmx13.4mm)<br>sTSP | 55                         | Special Ultra Low<br>Power | 0°C~70°C                 | Tray            | LY62W2568RL-55SL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-55SLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568RL-55SLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-55SLIT |
|                               |                            | Ultra Low Power            | 0°C~70°C                 | Tray            | LY62W2568RL-55LL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-55LLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568RL-55LLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-55LLIT |
|                               | 70                         | Special Ultra Low<br>Power | 0°C~70°C                 | Tray            | LY62W2568RL-70SL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-70SLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568RL-70SLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-70SLIT |
|                               |                            | Ultra Low Power            | 0°C~70°C                 | Tray            | LY62W2568RL-70LL   |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-70LLT  |
|                               |                            |                            | -40°C~85°C               | Tray            | LY62W2568RL-70LLI  |
|                               |                            |                            |                          | Tape Reel       | LY62W2568RL-70LLIT |



**Lyontek Inc.**

**LY62W2568**

Rev. 1.11

**256K X 8 BIT LOW POWER CMOS SRAM**

---

THIS PAGE IS LEFT BLANK INTENTIONALLY.