

## 64Mb, 3V Parallel NOR Flash Embedded Memory

*Advanced information. Subject to change without notice.*

### Features

- Tin Lead solder alloy Sn63Pb37
- Supply voltage and power
  - $V_{CC}$  (Core) = 2.7–3.6V (program, erase, read)
  - $V_{PP}$  = 12V for fast program (optional)
- Asynchronous random/page read
  - Page width: 4 words
  - Page access: 25ns
  - Random access: 60ns, 70ns, 90ns
- Fast program commands
  - 2-word/4-byte program (without  $V_{PP}$ = 12V)
  - 4-word/8-byte program (with  $V_{PP}$ = 12V)
  - 16-word/32-byte write buffer
- Programming time
  - 10 $\mu$ s per byte/word TYP
  - Chip program time: 10 s (4-word program)
  - Double word/quadruple byte program
- Memory Organization
  - M29W640GH/L 128 main blocks, 64KB each
  - M29W640GT/B 127 main blocks, 64KB each and 8 boot blocks, 8KB each
- Program/erase controller
  - Embedded byte/word program algorithms
- Program/erase suspend and resume
  - Read from any block during a PROGRAM SUSPEND operation
  - Read or program another block during an ERASE SUSPEND operation
- Hardware block protection
  - $V_{PP}/WP\#$  pin for fast program and write protect
  - Temporary block unprotect mode
- Common Flash interface
  - 64-bit security code
- 128-word extended memory block
  - Extra block used as security block or to store additional information
- Low power consumption: Standby and automatic mode
- 100,000 PROGRAM/ERASE cycles per block
- Electronic signature
  - Manufacturer code: 0020h
- Device summary: part number and device code
  - M29W640GB: bottom boot block  
227Eh + 2210h + 2200h

Options	Code
• Package (Sn63 Pb37 solder)	BG
• 48-ball TFBGA (6mm x 8mm) 0.8mm pitch	ZA
• Operating Temperature	IT
• Industrial (-40°C ≤ Ta ≤ +85°C)	
• Part Marking Label (L), Dot (D)	

**AS9100** Rev. C  
REGISTERED

MICROSS COMPONENTS  
**QML**  
CERTIFIED

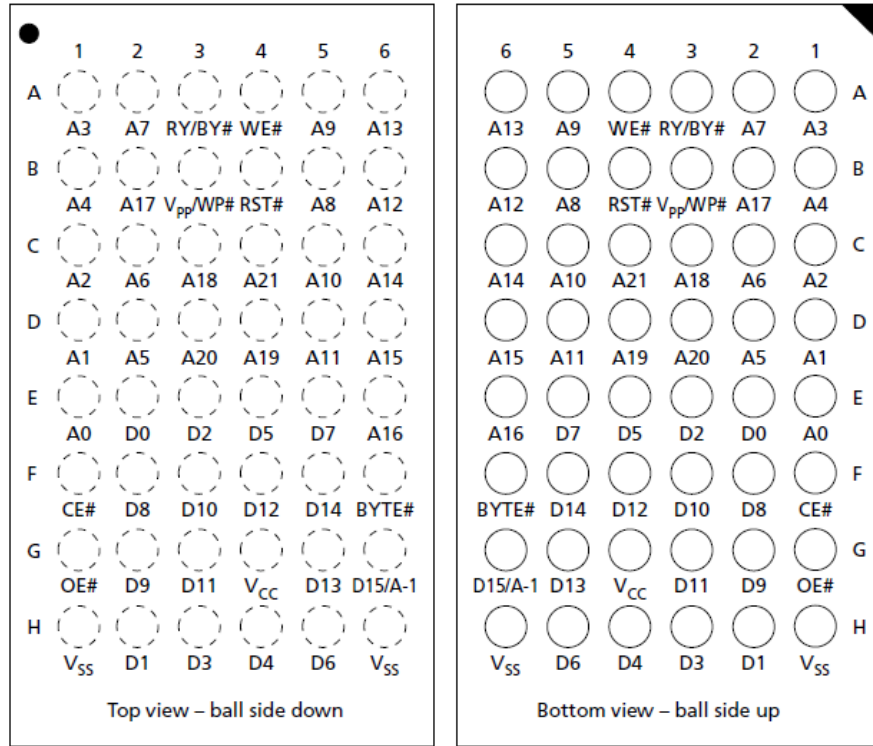
Micron Part. No. M29W640GB70ZA6E

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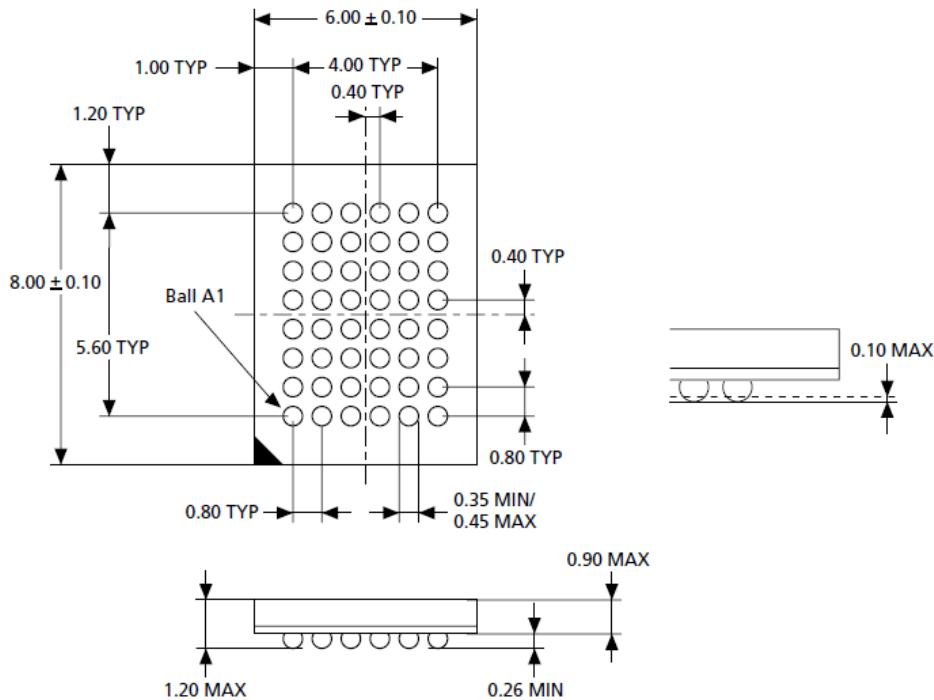
Figure 1: Signal Assignments

48-ball TFBGA (6mm x 8mm)



Note: 1. RFU = reserved for future use.

Figure 2: Package Dimensions



Note: All dimensions are in millimeters.

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