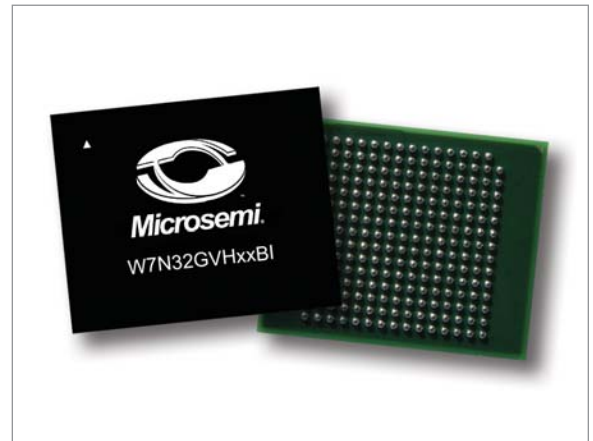


Embedded 4, 8, 16 and 32GB SLC NAND SSD PBGA

Microsemi Corporation newest flash product is the embedded SLC NAND flash SSD PBGA. The 32 bit RISC processor gives the part sophisticated wear leveling for extended endurance. It is capable of extended temperature operations and data protection in case of power loss. It is fully compliant with compact flash 3.0 and compatible to 4.1 specifications.



Product Features

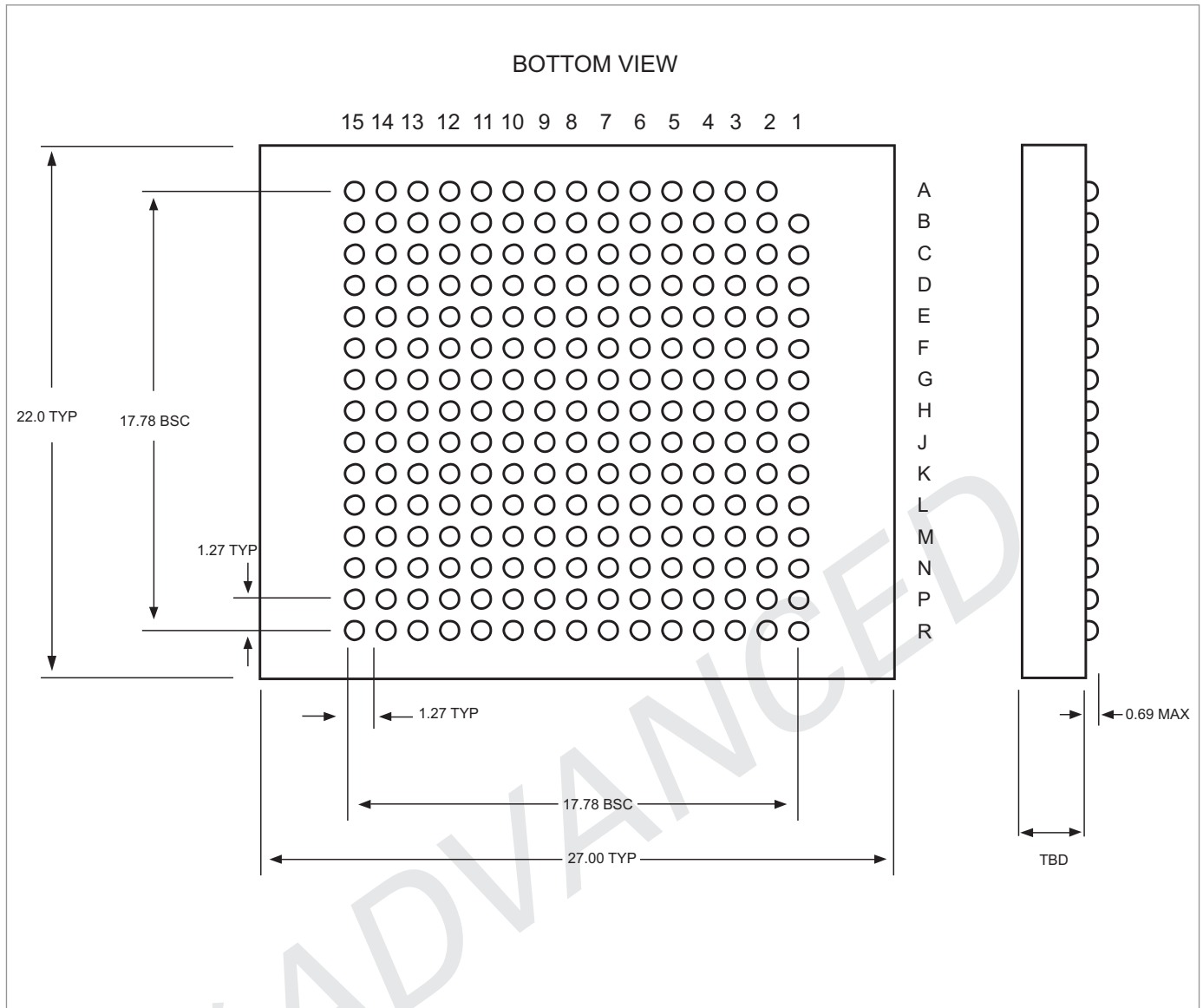
- 4, 8, 16 and 32 GByte SLC NAND
- 256 Bytes of attribute memory
- Built in ATA/PCMCIA 2.1/and compact flash 3.0 interface capability
- Single device connector free solution for embedded environments
- Data reliability
 - 1 non recoverable error in 10^{14} bits read
- Data protection during power loss events
- True IDE mode
- ECC = 4 random Bytes per 512 Byte sector
- NAND Flash density : part number
 - 4GByte: W7N4GVHxxBI**
27mm x 22mm
 - 8GByte: W7N8GVHxxBI**
27mm x 22mm
 - 16GByte: W7N16GVHxxBI**
27mm x 22mm
 - 32GByte: W7N32GVHxxBI**
27mm x 22mm
- Available in industrial temperature range
- 224 plastic ball grid array
- Extended environment for military applications
- Sophisticated wear leveling firmware
- Voltage supply: 3.3V
- Page read operation
- Page program time: 200 μ s (Typ)
- Block erase time : 1.5 ms (Typ)
- Hardware data protection
- Program/Erase lockout during transitions
- Data transfer rate: Up to 66 MB/s UDMA mode 4
Up to 25 MB/s PIO mode 6 or MDMA mode 4
- Sustained read: Up to 45 MB/s
- Sustained write: Up to 30 MB/s with interleaving
- Random read: Up to 35 MB/s
- Random write: Up to 6 MB/s

* This product is under development, is not qualified and is subject to change without notice.
** Contact factory for correct part number.



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Package Dimension



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