KVR26N19S8L/8
8GB 1Rx8 1G x 64-Bit PC4-2666 CL19 VLP 288-Pin DIMM

DESCRIPTION
This document describes ValueRAM's KVR26N19S8L/8 is a 1G x 64-bit (8GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM), 1Rx8, VLP (very low profile) memory module, based on eight 1G x 8-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-2666 timing of 19-19-19 at 1.2V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

FEATURES
- Power Supply: VDD = 1.2V Typical
  - VDDQ = 1.2V Typical
  - VPP = 2.5V Typical
  - VDDSPD = 2.2V to 3.6V
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- Low-power auto self refresh (LPASR)
- Data bus inversion (DBI) for data bus
- On-die VREFDQ generation and calibration
- Single-rank
- On-board I2 serial presence-detect (SPD) EEPROM
- 16 internal banks; 4 groups of 4 banks each
- Fixed burst chop (BC) of 4 and burst length (BL) of 8 via the mode register set (MRS)
- Selectable BC4 or BL8 on-the-fly (OTF)
- Fly-by topology
- Terminated control command and address bus
- PCB: Height 0.738” (18.75mm)
- RoHS Compliant and Halogen-Free

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CL(DD)</th>
<th>19 cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row Cycle Time (tRCmin)</td>
<td>45.75ns(min.)</td>
</tr>
<tr>
<td>Refresh to Active/Refresh Command Time (tRFCmin)</td>
<td>350ns(min.)</td>
</tr>
<tr>
<td>Row Active Time (tRASmin)</td>
<td>32ns(min.)</td>
</tr>
<tr>
<td>Maximum Operating Power</td>
<td>TBD W*</td>
</tr>
<tr>
<td>UL Rating</td>
<td>94 V - 0</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0° C to +85° C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55° C to +100° C</td>
</tr>
</tbody>
</table>

*Power will vary depending on the SDRAM used.
MODULE DIMENSIONS

All measurements are in millimeters.
(Tolerances on all dimensions are ±0.12 unless otherwise specified)

Hole
\( \phi 1.50 \ (\phi 55) \ (2X) \)

3.35 [132]
64.60 [2543]
56.10 [2209]
1.75 [69] [2X]
8.75 [7.38]
133.35 [5250]
80.60 [224] [2X]
1.75 [69] [2X]

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