**KVR24S17S6/4**

4GB 1Rx16 512M x 64-Bit PC4-2400
CL17 260-Pin SODIMM

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**DESCRIPTION**

This document describes ValueRAM's KVR24S17S6/4 as a 512M x 64-bit (4GB) DDR4-2400 CL17 SDRAM (Synchronous DRAM), 1Rx16, memory module, based on four 512M x 16-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR4-2400 timing of 17-17-17 at 1.2V. This 260-pin SODIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

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**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
- 8 internal banks; 2 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 1.18” (30.00mm)
- RoHS Compliant and Halogen-Free

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL(idd)</td>
<td>17 cycles</td>
</tr>
<tr>
<td>Row Cycle Time (tRCmin)</td>
<td>45.75ns(min.)</td>
</tr>
<tr>
<td>Refresh to Active/Refresh</td>
<td>350ns(min.)</td>
</tr>
<tr>
<td>Command Time (tRFCmin)</td>
<td></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.
All measurements are in millimeters.

(Tolerances on all dimensions are ±0.12 unless otherwise specified)

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