KVR800D3S8S6/2G

2GB 256M x 64-Bit PC3-6400
CL6 204-Pin SODIMM

DESCRIPTION

This document describes ValueRAM's 256M x 64-bit (2GB) DDR3-800MHz CL6 SDRAM (Synchronous DRAM) memory module, 1Rx8, based on eight 256M x 8-bit DDR3-800MHz FBGA components. The SPD is programmed to JEDEC standard latency 800MHz timing of 6-6-6 at 1.5V. This 204-pin SODIMM uses gold contact fingers and requires +1.5V. The electrical and mechanical specifications are as follows:

FEATURES

- JEDEC standard 1.5V ± 0.075V Power Supply
- VDDQ = 1.5V ± 0.075V
- 400MHz fCK for 800Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 6,7,8,9
- Posted CAS
- Programmable Additive Latency: 0, CL - 2, or CL - 1 clock
- Programmable CAS Write Latency (CWL) = 5 (DDR3-800)
- 8-bit pre-fetch
- Burst Length: 8 (Interleave without any limit, sequential with starting address "000" only), 4 with tCCD = 4 which does not allow seamless read or write [either on the fly using A12 or MRS]
- Bi-directional Differential Data Strobe
- Internal (self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm ± 1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE ≤ 95°C
- Asynchronous Reset
- PCB : Height 1.180" (30.00mm), double sided component

SPECIFICATIONS

CL(IDD)	6 cycles
Row Cycle Time (tRCmin)	52.5ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	160ns
Row Active Time (tRASmin)	37.5ns (min.)
Power	.600 W (operating)
UL Rating	94 V - 0
Operating Temperature	0° C to 85° C
Storage Temperature	-55° C to +100° C

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MODULE DIMENSIONS: