

## Memory Module Specification

## KVR400X64C3A/512 512MB 64M x 64-Bit DDR400 CL3 184-Pin DIMM

## **DESCRIPTION:**

This document describes ValueRAM's 64M x 64-bit (512MB) DDR400 CL3 SDRAM (Synchronous **DRAM**) memory module. The components on this module include sixteen 32M x 8-bit (8M x 8-bit x 4 Bank) DDR400 SDRAM in TSOP packages. This 184-pin DIMM uses gold contact fingers and requires +2.6V. The electrical and mechanical specifications are as follows:

## **FEATURES:**

☑ Clock Cycle Time (tCK) 5ns (min.) / 10ns (max.)

✓ Row Cycle Time (tRC)✓ Refresh Row Cycle Time (tRFC)55ns (min.)70ns (min.)

☑ Row Active Time (tRAS) 40ns (min.) / 70,000ns (max.)

✓ Single Power Supply of +2.6V (+/-.1V)
✓ Power 3.224 W (operating)

**☑** UL Rating 94 V - 0

**Note:** The module defined in this data sheet is one of several configurations available under this part number. While all configurations are compatible, the DRAM combination and/or the module height may vary from what is described here. However, in no configuration will the module height exceed 1.250" (31.75mm).

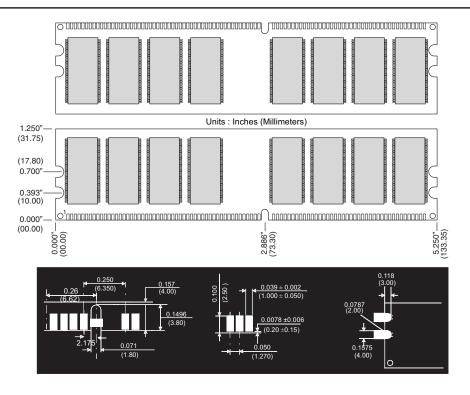


Figure 1: KVR400X64C3A/512 184-Pin DIMM