



# DDR2 SDRAM SO-DIMM MODULE, 1.8V

## 512MByte - 64MX64

### AVK6464U51E5667F0

## FEATURES

JEDEC Standard DDR2 PC2-5300 667MHz

- Clock frequency: 333MHz with CAS latency 5
- 256 byte serial EEPROM
- Data input and output masking
- Programmable burst length: 2, 4, 8
- Programmable burst type: sequential and interleave
- Programmable CAS latency: 5
- Auto refresh and self refresh capability
- Gold card edge fingers
- 8K refresh per 64ms
- Low active and standby current consumption
- SSTL-2 compatible inputs and outputs
- Decoupling capacitors at each memory device
- Double-sided module
- 1.18 inch height

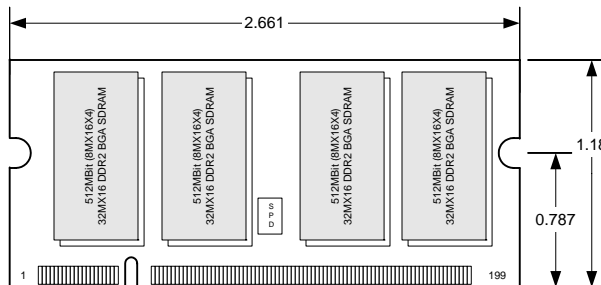
## DESCRIPTION

The AVK6464U51E5667F0 family consists of Unbuffered DDR2 SDRAM SODIMM memory module. This module is JEDEC-standard 200-pin, small-outline, dual in-line memory module. A 256 byte serial EEPROM on board can be used to store module information such as timing, configuration, density, etc.

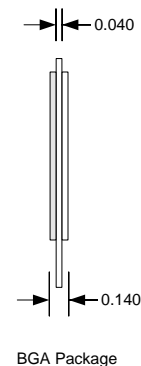
The AVK6464U51E5667F0 memory module is 512MByte and organized as a 64MX64 array using (8) 32MX16 (4 internal banks) DDR2 SDRAMs in BGA packages.

All memory modules are fabricated using the latest technology design, six-layer printed circuit board substrate construction with low ESR decoupling capacitors on-board for high reliability and low noise.

## PHYSICAL DIMENSIONS



All gray ICs are on the top, and all white ICs are on the back side of the module  
The SPD EEPROM is populated on the back side of the module



BGA Package

**Avant Ordering Guides**

<b>AV</b>	<b>K</b>	<b>64</b>	<b>64</b>	<b>U</b>	<b>51</b>	<b>E</b>	<b>5</b>	<b>667</b>	<b>F</b>	<b>0</b>
INVENTORY	MOD. TYPE	ORG.	DENSITY	PARITY	TYPE	VOLT.	FEATURE	SPEED	MODE	REV
Av = AVANT	K = 200-PIN SO-DIMM	64=X64	64 = 64M	U=UNBUFFERED	51 = 8Mx16x4	E = 1.8V	5 = CAS LATENCY 5	667MHZ	F=DDR2 SDRAM	DEF=0

Other options may be available. Call for specific part number information on options not listed.



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