

# KSM26SES8/8MR

8GB 1Rx8 1G x 72-Bit PC4-2666 CL19 260-Pin ECC SODIMM

#### DESCRIPTION

Kingston's KSM26SES8/8MR is a 1G x 72-bit (8GB) DDR4-2666 CL19 SDRAM (Synchronous DRAM) w/ parity, 1Rx8, ECC, memory module, based on nine 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 260-pin SODIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

#### **FEATURES**

- Power Supply: VDD = 1.2V
- VDDQ = 1.2V
- VPP = 2.5V
- VDDSPD = 2.20V to 3.60V
- · Functionality and operations comply with the DDR4 SDRAM datasheet
- · 16 internal banks
- Bank Grouping is applied, and CAS to CAS latency (tCCD\_L, tCCD\_S) for the banks in the same or different bank group accesses are available
- Data transfer rates: PC4-2666, PC4-2400, PC4-2133, PC4-1866, PC4-1600
- · Bi-Directional Differential Data Strobe
- · 8 bit pre-fetch
- · Burst Length (BL) switch on-the-fly BL8 or BC4(Burst Chop)
- · Supports ECC error correction and detection
- On-Die Termination (ODT)
- · Temperature sensor with integrated SPD
- · This product is in compliance with the RoHS directive.
- · Per DRAM Addressability is supported
- · Internal Vref DQ level generation is available
- · Write CRC is supported at all speed grades
- · CA parity (Command/Address Parity) mode is supported
- · RoHS Compliant and Halogen-Free

## **SPECIFICATIONS**

CL(IDD)	19 cycles	
Row Cycle Time (tRCmin)	45.75ns(min.)	
Refresh to Active/Refresh Command Time (tRFCmin)	350ns(min.)	
Row Active Time (tRASmin)	32ns(min.)	
Maximum Operating Power	*	
UL Rating	94 V - 0	
Operating Temperature	0° C to +85° C	
Storage Temperature	-55° C to +100° C	

<sup>\*</sup>See IDD Specifications (page 2)

### **Module Assembly**

**DRAM:** MICRON (R-DIE)

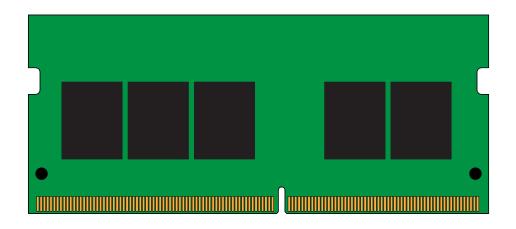
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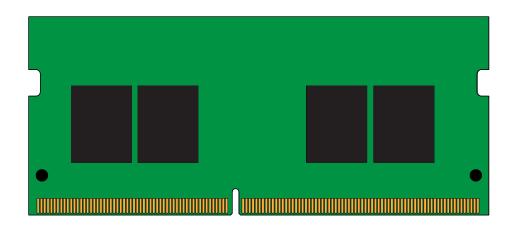
# **IDD Specifications**

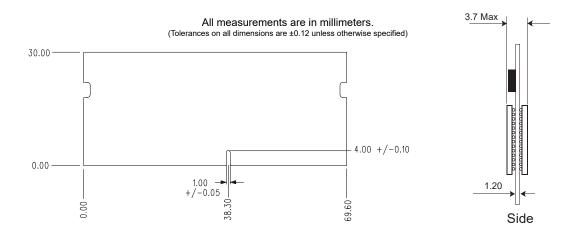
Symbol	2666	Units
I <sub>DD0</sub>	396	mA
I <sub>PP0</sub>	36	mA
I <sub>DD1</sub>	459	mA
I <sub>DD2N</sub>	324	mA
I <sub>DD2NT</sub>	333	mA
I <sub>DD2P</sub>	270	mA
I <sub>DD2Q</sub>	306	mA
I <sub>DD3N</sub>	351	mA
I <sub>PP3N</sub>	27	mA
I <sub>DD3P</sub>	279	mA
I <sub>DD4R</sub>	945	mA
I <sub>DD4W</sub>	819	mA
I <sub>DD5R</sub>	405	mA
I <sub>PP5R</sub>	45	mA
I <sub>DD6N</sub>	288	mA
I <sub>DD6E</sub>	468	mA
I <sub>DD6R</sub>	171	mA
I <sub>DD6A</sub>	72	mA
I <sub>DD6A</sub>	171	mA
I <sub>DD6A</sub>	261	mA
I <sub>PP6X</sub>	45	mA
I <sub>DD7</sub>	1305	mA
I <sub>PP7</sub>	72	mA
I <sub>DD8</sub>	216	mA

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# **MODULE DIMENSIONS**







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