

AS4C256M16D4A-75BCN vs AS4C256M16D4C-75BCN Comparison

Part Number & result Parameter	AS4C256M16D4A-75BCN	AS4C256M16D4C-75BCN	Comments
Product Description/Rev	DDR4 SDRAM/RevA	DDR4 SDRAM/RevC	
Capacity	4Gb (256M x 16)	4Gb (256M x 16)	Same
Memory Organization	32Meg, x16bits,x4banks x2grps	32Meg, x16bits,x4banks x2grps	Same
Bank Group Address	BG0	BG0	Same
Bank Address	BA[1:0]	BA[1:0]	Same
Row Addressing	32K (A[14:0])	32K (A[14:0])	Same
Column Addressing	1K (A[9:0])	1K (A[9:0])	Same
Page Size	2KB	2KB	Same
Operating Power Supply	V _{DD} & V _{DDQ} = 1.2V (+/-0.06V) V _{pp} = +2.5V(-0.125V/+0.25V)	V _{DD} & V _{DDQ} = 1.2V (+/-0.06V) V _{pp} = +2.5V(-0.125V/+0.25V)	Same
Operating Temperature	Commercial (0°C≤ T _c ≤ 95°C)	Commercial (0°C≤ T _c ≤ 95°C)	Same
Max.Clock Freq.(MHz)	1333	1333	Same
Data Rate (MT/s)	2666	2666	Same
CAS Latency	19	19	Same
tRCD & tRP (ns)	14.25	14.25	Same
Average Refresh Period 8192 cycles @	64ms upto 85C 32ms >85C to 95C	64ms upto 85C 32ms >85C to 95C	Same
I/O Capacitance (C _{io})	1.15pf	0.82pf	Same
Pin to Pin Compatible	Pin to Pin Compatible, refer next page		Same
AC/DC Characteristics	Rev.C do not support MR4 & MR6 config with tRPRE=2T and tCCD=6		
IDD Specification			
I _{DD0} (mA)	93	43	RevC better
I _{DD1} (mA)	101	81	RevC better
I _{DD2P} (mA)	36	17	RevC better
I _{DD2Q} (mA)	52	22	RevC better
I _{DD2N} (mA)	55	24	RevC better
I _{DD3P} (mA)	45	21	RevC better
I _{DD3N} (mA)	88	35	RevC better
I _{DD4R} (mA)	178	172	RevC better
I _{DD4W} (mA)	208	160	RevC better
I _{DD6E} (mA)	33	16	RevC better
I _{DD7} (mA)	223	179	RevC better
Package 96b FBGA	7.5mm x 13mm	7.5mm x 13mm	
Package Material	Pb and Halogen Free	Pb and Halogen Free	