

AS6C3216A-55BIN vs CY62177EV30LL-55BAXI Comparison

Part Number & result Parameter	AS6C3216A-55BIN	CY62177EV30LL-55BAXI	Comparison
Product Description	Low Power ASRAM	Low Power ASRAM	Same
Capacity	32Mb	32Mb	Same
Memory Organization	2M x 16bits	2M x 16bits	Same
Operating Power Supply	V _{CC} = 2.7V ~ 3.6V	V _{CC} = 2.2V ~ 3.6V	different
Operating Temperature	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Same
I/O Capacitance	CIO: 8pf (Max.)	CIO: 15pf (Max.)	different
Read Cycle Time (tRC)	55ns (Min.)	55ns (Min.)	Same
Write Cycle Time (tWC)	55ns (Min.)	55ns (Min.)	Same
Addr Access Time(tAA)	55ns (Max.)	55ns (Max.)	Same
OE Access Time (tOE)	30ns (Max.)	25ns (Max.)	comparable
V_{OH} (V) @ -1.0mA	2.2 (Min.)	2.4 (Min.)	comparable
V_{OL} (V) @ 2mA	0.4 (Max.)	0.4 (Max.)	Same
V_{IH} (V)	2.2 (Min.)	2.2 (Min.)	Same
V_{IL} (V)	0.6 (Max.)	0.7 (Max.)	comparable
I_{LI} / I_{LO}(uA)	+/- 1	+/- 1	Same
I_{CC} (Cycle Time=Min)			Alliance Better
Operating Current	20 mA (Max.)	45 mA (Max.)	
I_{CC1} (Cycle Time=1uS)			Alliance Better
Operating Current	5 mA (Max.)	18 mA (Max.)	
I_{sb1} (Standby Current)	80 uA (Max.)	25 uA (Max.)	Cypress better
VDR	1.2V (Min.)	1.5V (Min.)	Alliance Better
Package 48ball TFBGA	8mm x 10mm	8mm x 9.5mm	comparable
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same
Pin to Pin Compatible	Yes	Yes	Same

