

AS6C1008-55SIN vs CY62128ELL-45SXI Comparison

Part Number & result Parameter	AS6C1008-55SIN	CY62128ELL-45SXI	Comparison Result
Product Description	Low Power ASRAM	Low Power ASRAM	Same
Capacity	1Mb	1Mb (128k x 8)	Same
Memory Organization	128k x8bits (2 Chip Select)	128k x8bits (2 Chip Select)	Same
Operating Power Supply	V _{cc} = 2.7v to 5.5V	V _{cc} = 4.5V to 5.5V	Alliance Support Wider Range
Operating Temperature	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Same
I/O Capacitance	CIO: 8pf(MAX.)	CIO: 10pf(MAX.)	Comparable
Pin to Pin Compatible	Pin to Pin Compatible		Same
Access time (ns)	55	45	Cypress Better
AC Characteristics			
tRC & tWC (ns)	55	45	Cypress Better
tAA (ns)	55	45	Cypress Better
DC Characteristics			
Spec conditions	-40C ≤ Ta ≤ 85C V _{cc} = 2.7V ~ 5.5V	-40C ≤ Ta ≤ 85C V _{cc} = 4.5V ~ 5.5V	Comparable
V_{OH} (V)	2.2 (min.)	2.4 (min.)	Comparable
V_{OL} (V)	0.4 (max.)	0.4 (max.)	Same
V_{IH} (V)	0.7*V _{CC} (min.)	2.2(min.)	Comparable
V_{IL} (V)	0.6(max.)	0.8(max.)	Comparable
I_{LI} (uA)	1 (max.)	1 (max.)	Same
I_{LO}(uA)	1 (max.)	1 (max.)	Same
I_{CC} (mA)	60 (max.)	16 (max.)	Cypress Better
I_{CC1}(mA)	10 (max.)	2 (max.)	Cypress Better
I_{SB} (uA)	50 (max.)	4 (max.)	Cypress Better
Package	32p SOP (450mils)	32p SOIC (450mils)	Comparable
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same