

AS7C38096A-10TIN vs CY7C1059DV33-10ZSXI Comparison

Part Number & result Parameter	AS7C38096A-10TIN	CY7C1059DV33-10ZSXI	Comparison Result
Product Description	FAST ASRAM	FAST ASRAM	Same
Capacity	8Mb	8Mb	Same
Memory Organization	1M, x8bits, 1 Chip Select	1M, x8bits, 1 Chip Select	Same
Operating Power Supply	$V_{CC} = 2.7V \sim 3.6V$	$V_{CC} = 3.0V \sim 3.6V$	Comparable
Operating Temperature	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Same
I/O Capacitance	CIO: 10pf(MAX.)	CIO: 12pf(MAX.)	Comparable
Pin to Pin Compatible	Pin to Pin Compatible		Same
Access time	10ns	10ns	Same
AC Characteristics			
tRC & tWC (ns)	10	10	Same
tAA (ns)	10	10	Same
DC Characteristics			
Spec conditions	-40C ≤ TA ≤ 85C $V_{CC} = 2.7V \sim 3.6V$	-40C ≤ TA ≤ 85C $V_{CC} = 3.0V \sim 3.6V$	Comparable
V_{OH} (V)	2.4 (min.)	2.4 (min.)	Same
V_{OL} (V)	0.4 (max.)	0.4 (max.)	Same
V_{IH} (V)	2.2(min.)	2.0(min.)	Comparable
V_{IL} (V)	0.8(max.)	0.8(max.)	Same
I_{LI} (uA)	1 (max.)	1 (max.)	Same
I_{LO}(uA)	1 (max.)	1 (max.)	Same
I_{CC} (mA)	130 (max.)	110 (max.)	Cypress Better
I_{CC1}(mA)	100 (max.)	-	
I_{SB} (mA)	40 (max.)	40 (max.)	Same
Package	44pin TSOP II	44pin TSOP II	Same
Package Material	Pb and Halogen Free	Pb and Halogen Free	Same