

AS6C6264-55PIN vs TC5564APL-15 Comparison

Part Number & result Parameter	AS6C6264-55PIN VDD = 2.7V~5.5V	AS6C6264-55PIN VDD = 4.5V~5.5V	TC5564APL-15	Comparison Comments
Product Description	Low Power ASRAM		Low Power ASRAM	Same
Capacity	64Kb		64Kb	Same
Memory Organization	8K x 8bits		8K x 8bits	Same
Operating. Power Supply	V _{CC} =2.7V ~ 5.5V	V _{CC} =4.5V ~ 5.5V	V _{CC} =4.5V ~ 5.5V	Same
Low Voltage Operation	2.7V	2.7V	2.7V	Same
Operating Temperature	Industrial (-40°C to 85°C)		Industrial (-40°C to 85°C)	Same
I/O Capacitance	C _{IN} : 6pf (Max.) C _{I/O} : 8pf (Max.)		C _{IN} : 10pf (Max.) C _{I/O} : 10pf (Max.)	Comparable
Read Cycle Time (t _{RC})	55ns (Min.)		150ns (Min.)	Alliance Faster
Write Cycle Time (t _{WC})	55ns (Min.)		150ns (Min.)	Alliance Faster
Addr Access Time (t _{AA})	55ns (Max.)		150ns (Max.)	Alliance Faster
OE Access Time (t _{OE})	30ns (Max.)		70ns (Max.)	Alliance Faster
V _{OH} (V)	2.4 (Min.) @ -1.0mA		2.4 (Min.) @ -1.0mA	Same
V _{OL} (V)	0.4 (Max.) @ 4mA		0.4 (Max.) @ 4.0mA	Same
V _{IH} (V)	2.2 (Min.)		2.2 (Min.)	Same
V _{IL} (V)	0.6 (Max.)		0.8 (Max.)	Comparable
I _{LI} / I _{LO} (uA)	+/-1 (Max.)		+/-1 (Max.)	Same
Operating. Current I _{CC} / I _{DD01}	I _{CC} = 45mA(Max.) Cycle Time = 55ns		I _{DD01} = 40mA(Max.) Cycle Time = 1uS	Alliance Better
Operating. Current I _{CC1} / I _{DD02}	I _{CC1} = 10mA(Max.)		I _{DD02} = 35mA(Max.)	Alliance Better
Standby Current I _{SB1} (CMOS level)	4uA (Max.) @ 60C 20uA (Max.) @ 85C		1uA (Max.) @ 60C	Toshiba better
V _{DR}	1.5V (Min.)		2.0V (Min.)	Alliance Better
Package	28p PDIP 600mils		28p PDIP ?	Customer to check
Package Material	Pb and Halogen Free		?	
Pin to Pin Compatible	Yes			
	PIN CONFIGURATION  TC5564APL 			