

AS6C62256A-70SIN & U62256AS2K07LLG1 & AS6C62256-55SIN

Comparison

Part Number & result Parameter	AS6C62256A-70SIN	U62256AS2K07LLG1	AS6C62256-55SIN	Comments
Product Description	Low Power ASRAM	Low Power ASRAM	Low Power ASRAM	
Capacity	256Kb	256Kb	256Kb	Same
MemoryOrgnization	32K x 8bits	32K x 8bits	32K x 8bits	Same
Oper. Power Supply	V _{CC} =4.5V ~ 5.5V	V _{CC} =4.5V ~ 5.5V	V _{CC} =2.7V ~ 5.5V	AS6C62256-55SIN better
Operating Temperature	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Industrial (-40°C to 85°C)	Same
I/O Capacitance	CIO: 7pf (Max.)	CIO: 7pf (Max.)	CIO: 8pf (Max.)	Comparable
Read Cycle Time (tRC)	70ns (Min.)	70ns (Min.)	55ns (Min.)	AS6C62256-55SIN better
WriteCycleTime(tWC)	70ns (Min.)	70ns (Min.)	55ns (Min.)	AS6C62256-55SIN better
Addr Access Time (tAA)	70ns (Max.)	70ns (Max.)	55ns (Max.)	AS6C62256-55SIN better
OE Access Time(tOE)	35ns (Max.)	35ns (Max.)	30ns (Max.)	Comparable
V_{OH}(V)	2.4 (Min.)	2.4 (Min.)	2.4 (Min.)	Same
V_{OL}(V)	0.4 (Max.)	0.4 (Max.)	0.4 (Max.)	Same
V_{IH}(V)	2.2 (Min.)	2.2 (Min.)	2.4 (Min.)	Same
V_{IL}(V)	0.8 (Max.)	0.6 (Max.)	0.6 (Max.)	Same
I_{LI} / I_{LO}(uA)	2 (Max.)	2 (Max.)	1 (Max.)	Comparable
Oper. Current	ICC = 70mA(Max.)	ICC = 70mA(Max.)	ICC = 45mA(Max.)	AS6C62256-55SIN better
Standby Current I_{SB1}(CMOS level)	10uA (Max.)	10uA (Max.)	30uA (Max.)	Comparable
Standby Current I_{SB2}(TTL level)	1mA (Max.)	1mA (Max.)	3mA	Different
V_{DR}	2 (Min.)	2V (Min.)	1.5V (Min.)	AS6C62256-55SIN better
Package Dim	330mil SOP28	330mil SOP28	330mil SOP28	Same
Package Material	Pb and Halogen Free	Pb and Halogen Free	Pb and Halogen Free	Same
Pin to Pin Compatible	Yes	Yes	Yes	Same