SUPPLEMENT

MK 4007P -4
MK 4007N -4

256-BIT

MOS Random Access Memory

MOSTEK

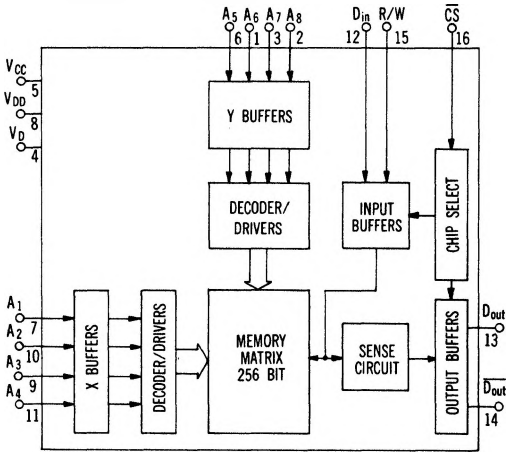
Random Access Memories

- ☐ Low-cost 256x1 RAM in 16-pin package.
- ☐ Identical with Mostek's MK 4007 P in all specifications except output current

DESCRIPTION

This economical version of Mostek's 256x1 bit RAM is identical with the MK 4007 P in all electrical characteristics except output current. Performance, operating conditions, timing characteristics, package, and all other specifications are identical with the MK 4007 P. See the MK 4007 P Data Sheet for additional information.

FUNCTIONAL DIAGRAM



ELECTRICAL CHARACTERISTICS

(Ambient Temperature Range: 0°C to +75°C. V_{CC} = +5 V ±5%; V_D = V_{DD} = −7 V to −13.2 V, unless otherwise specified.)

		PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS
POWER	I_D	Supply Current, V_D		8.0	16	mA	V_D = V_{DD} = −9 V ±5%
	I_{DD}	Supply Current, V_{DD}		4.0	9	mA	Outputs open-circuited.
	P_D	Power Dissipation, Total		170	370	mW	
	I_D	Supply Current, V_D			19	mA	V_D = V_{DD} = −13.2 V
	I_{DD}	Supply Current, V_{DD}			10	mA	V_{CC} = +5.25 V
	P_D	Power Dissipation, Total			535	mW	Outputs open-circuited.
	P_{SDBY}	Power Dissipation, Standby		30	75	mW	V_D = V_{CC}; V_{DD} = −9V ±5%
INPUTS	$I_{I(L)}$	Input Leakage Current			1.0	μA	V_{IN} = O V, T_A = 25°C
	C_{IN}	Input Capacitance, Any Logic Input		7	10	pF	T_A = 25°C, F. Meas. =
	$C_{V(D)}$	Capacitance, V_D Power Supply		35		pF	1 MHz; Tested input = V_{CC}
OUTPUTS	I_{OL}	Output Current, Logic "0": @ T_A = 25°C	3.0	5.6		mA	V_O = +0.40 V (V_{CC} = 5.0 V ±5%,
		Output Current, Logic "0": @ T_A = 70°C	2.0			mA	V_O = +0.40 V V_D = V_{DD} = −9.0 V
	I_{OH}	Output Current, Logic "1"	−1.0	−4.2		mA	V_O = +2.6 V ±10%)
	I_{OLC}	Output Clamp Current, Logic "0"			8.0	mA	V_O = −1.0 V
	$I_{O(L)}$	Output Leakage Current			1.0	μA	V_O = V_{CC} −5V; $\overline{CS}$ = Logic 1; T_A = 25°C.
	C_{OUT}	Output Capacitance		7	10	pF	T_A = 25°C; F meas. = 1 MHz; V_O = V_{CC}

NOTES:

(1) Typical values at V_{CC} = +5 V, V_D = V_{DD} = −9.0 V*, T_A = 25°C.
(*Except Standby Power)