

HL0512Bipolar Prom

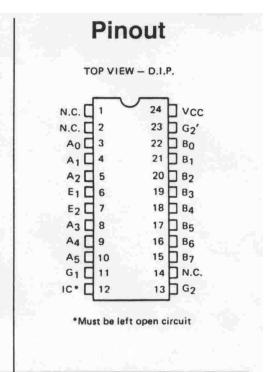
Legacy Device: *Harris JAN0512*

Features

- FIELD PROGRAMMABLE
- 64 WORDS/8 BITS PER WORD
- FULLY DECODED
- DTL/TTL COMPATABLE
- 55ns ACCESS TIME (TYPICAL)
- OPERATING TEMPERATURE; T_A = -55°C TO + 125°C

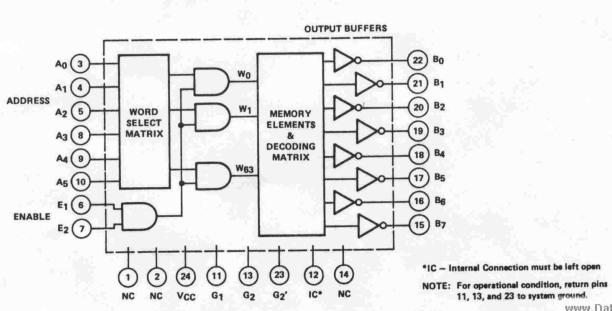
Description

The HL0512 is a field programmable 64 word by 8 bit PROM. In an unprogrammed memory, all "Memory Elements" are short circuits so that logical "zeros" appear at each output bit position for any address input. "Electronic Programming" involves the alteration of specific "Memory Elements" to create logical "ones" in selected bit positions. This alteration is irreversible and cannot be accomplished under normal operating conditions.



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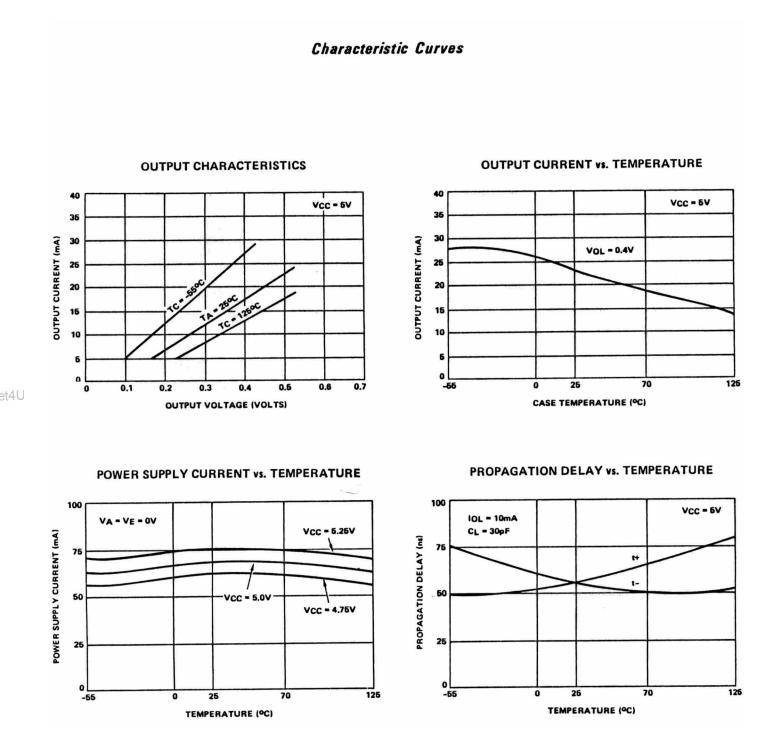
Block Diagram



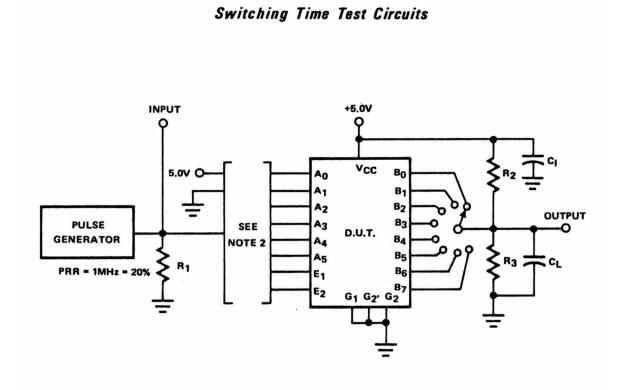
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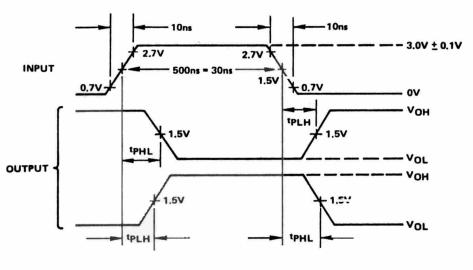
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NOTES:

- 1. Pins 12 and 14 shall be left open.
- 2. The applicable test table should be selected from the altered item drawing.
- 3. C1 = 0.5 μ F ±10%; R1 = 50 Ω ±5%; R2 = 470 Ω ±5%; R3 = 1k Ω ±5%; CL = 30pF including jig and probe capacitance.

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ABSOLUTE MAXIMUM RATINGS

Supply Voltage Range -0.5 VDC to 7.0 VDC Input Voltage Range -1.5 VDC at -12mA to 5.5 VDC Storage Temperature Range -65°C to +150°C Lead Temperature (Soldering 10 Seconds) 300oC Thermal Resistance, Junction-to-Case JC' Case J = 30°C/w **Output Supply Voltage** -0.5VDC to 7.0VDC **Output Sink Current** +30mA Maximum Power Dissipation, PD 575mWdc Maximum Junction Temperature, T.J. 175°C

RECOMMENDED OPERATING CONDITIONS

Supply Voltage
Minimum High Level Input Voltage
Maximum Low Level Input Voltage
Normalized Fanout (Each Output)
Ambient Operating Temperature Range

4.75 V_{DC} Min. to 5.25V_{DC} Maximum 2.0V_{DC} 0.8V_{DC} 6 Maximum (10mA) -55°C to +125°C

ELECTRICAL CHARACTERISTICS

The electrical characteristics are as specified in the table and apply over the full recommended ambient operating temperature range, unless otherwise specified.

		LIMITS			
SYMBOL	TEST	MIN	MAX	UNITS	TEST CONDITIONS
VOL	Low Level Output Voltage		0.45	Volts	VCC = 4.75V VIN = 2.0V IOL = 10mA
Vic	Input Clamp Voltage		-1.5	Volts	VCC = 4.75V IIN = -12mA TA = 25°C
ICEX1	Maximum Collector Cut-Off		100	μΑ	VCC = 5.25V VOH = 2.8V VIN = 0.8V
ICEX2	Current		200	μА	VCC = 5.25V VOH = 5.25V VIN = 0.8V
UH1			60	μА	VCC = 5.25V VIN = 2.4V;
liH2	High Level Input Current		100	μА	VCC = 5.25V VIN = 5.25; ①
liL	Low Level Input Current	-0.2	-1.6	mA	VCC = 5.25V VIN = 0.4V; ②
IÇC	Supply Current		100	mA ·	VCC = 5.25V VIN = 0
tPHL .	Propagation Delay Time High-to-Low Level Logic	25	140	ns	VCC = 5.0V
tPLH	Propagation Delay Time Low-to-High Level Logic	25	140	ns	CL = 30pF Min. R1 = 470 Ω ±5%

NOTES: 1. When testing one E input, apply 5.25V to the other.

2. When testing one E input, apply GND to the other.

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