

MH0026C Two Phase Clock Driver

REFERENCE TABLE

Code	Stock No.
MH0026CH	31041B
MH0026CG	31019R
MH0026CN	31037R

GENERAL DESCRIPTION

The MH0026C is a low cost monolithic high speed two phase MOS clock driver and interface circuit. Unique circuit design along with advanced processing provide both very high speed operation and the ability to drive large capacitive loads. The device accepts standard TTL/DTL outputs and converts them to MOS logic levels. It may be driven from standard 54/74 series gates and flip-flops or from drivers such as the DM9830 or DM7440. The MH0026C is intended for applications in which the output pulse width is logically controlled: i.e., the output pulse width is equal to the input pulse width. The MH0026C is intended to fulfill a wide variety of MOS interface requirements. As a MOS clock driver for long silicon gate shift registers, a single device can drive over 10k bits at 5MHz. Six devices provide input address and precharge drive for a 8k by 16 bit MM1103 RAM memory system.

FEATURES

- Fast rise and fall times—20ns with 1000pF load
- High output swing—20V
- High output current drive— ± 1.5 amps
- TTL/DTL compatible inputs
- High rep rate—5 to 10MHz depending on load
- Low power consumption in MOS 'O' state—2mW
- Drives to 0.4V of GND for RAM address drive
- The device is available in 8-lead TO-5, one watt copper lead frame 8-pin mini-DIP, and one and a half watt TO-8 packages.

ABSOLUTE MAXIMUM RATINGS

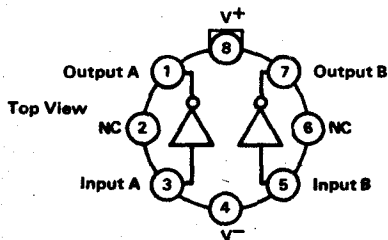
$V^+ - V^-$ differential voltage	22V
Input Current	100mA
Input voltage ($V_{IN} - V^-$)	5.5V
Peak output current	1.5A
Operating temperature range MH0026C	0°C to 85°C
Storage temperature range	-65°C to +150°C
Lead temperature (Soldering, 10 sec)	300°C

See Summary of Electrical Characteristics on page 1037.

CONNECTION DIAGRAM

MH0026CH

8-Lead TO-5



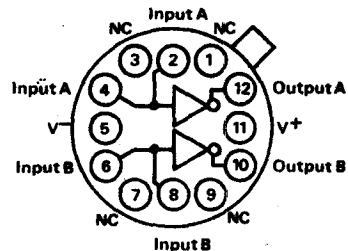
Note: Pin 4 connected to case

See outline drawing No. 97 for dimensions.

CONNECTION DIAGRAM

MH0026CG

12-Lead TO-8

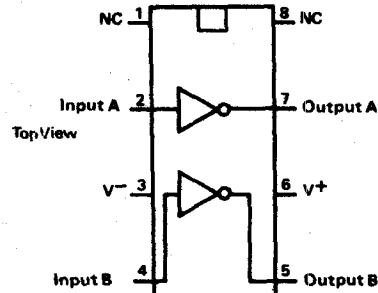


See outline drawing No. 99 for dimensions.

CONNECTION DIAGRAM

MH0026CN

8-Lead Dual-In-Line Package



See outline drawing No. 103 for dimensions.

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