

June 1982

MA1020, MA1022, MA1023 Series Low Cost Digital LED Clock Module



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MA1033 12 V_{DC} Automotive/Instrument Clock Module

General Description

The MA1033 is an electronic digital automotive clock module featuring 4-digit LED displays. It is designed to offer the user a low cost automotive or instrument clock module with electronic assembly capability. A minimum number of discrete components are needed to form a complete digital clock for 12 V_{DC} instrument panel applications. Additional components are needed to fully protect against automotive transients and battery reversal conditions.

Key features include easy-to-use fast and slow setting controls, 0.3 inch display size, low power consumption, leading zero blanking, power loss indication, and direct drive LED display/no RFI. The display brightness can be varied with a single external potentiometer.

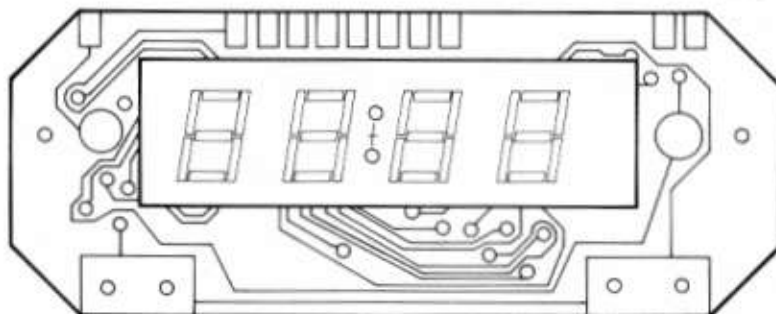
Functional Features

- Available in 0.3" display size with adhesive mylar cover/diffuser and clear surface color
- Entire display flashes to indicate power loss
- Simple fast/slow setting controls
- Leading zero blanking
- Low power consumption
- Direct drive LED display/no RFI
- Display brightness control

Applications

- In-dash auto clocks
- After-market auto/recreational vehicle clocks
- Aircraft-marine clocks
- 12 V_{DC} operated instruments
- Portable/battery powered instruments

Display Outline



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0.34", 0.7" or 0.5" with or

inter setting

power loss

accidental time-
r sleep setting

alarm, sleep and lamp

Hz and fixed/flashing

transformer and setting

atic display bright-

ous timekeeping dur-
nal 9 volt battery and

t, gated at a 2 Hz rate

ck (80 speaker drive)

ications

calendar circuit

d display modes

E COLOR

E TYPE

ic Lens Cover

Diffuser

sive Mylar

/Diffuser