

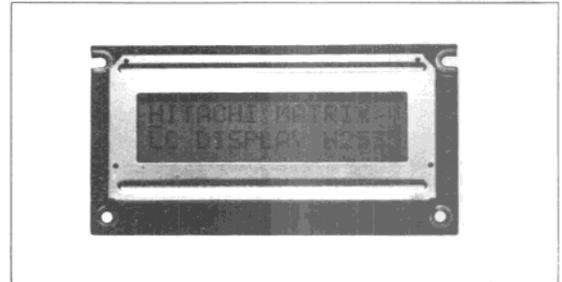
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10:54

H2535

- 32-Position alpha-numeric display
- Control LSI HD43160A attachment type (see page 7)

MECHANICAL DATA (Nominal dimensions)

Module size 84W x 44H x 15D (max) mm
 Effective display area 61W x 15.8H mm
 Character size (5 x 7 dots) 2.9W x 4.1H mm
 Pitch 3.6 mm
 Dot size 0.5W x 0.5H mm
 Weight about 40 g



ABSOLUTE MAXIMUM RATINGS

Supply voltage ($V_{DD}-V_{SS}$) 7 V max.
 ($V_{DD}-V_{EE}$) 13.5 V max.
 Input voltage (CL1, CL2, D, M, FLM) . . . $V_{SS} \leq V_{IN} \leq V_{DD}$
 Operating temperature (T_a) 0 to 50°C
 Storage temperature (T_{stg}) -20 to 60°C

INTERNAL PIN CONNECTION

Pin No.	Symbol	Level	Function
1	FLM	H	The FLM signal indicates the beginning of each display cycle.
2	M	H/L	Control signal for a.c. driving:
3	CL1	H→L	The CL1 latches the serial data in the shift registers.
4	D	H/L	Serial row data of each character.
5	CL2	H→L	Clock signal for shifting the serial data.
6	V_{DD}	-	Power supply for logic circuit.
7	V_{SS}	-	Ground.
8	V_{EE}	-	Power supply for LC driving.
9	V_O	-	Operating voltage for LC driving.
10	NC	-	No connection.

ELECTRICAL CHARACTERISTICS

Power supplies ($V_{DD}-V_{SS}$) $+5 \pm 0.25$ V
 ($V_{EE}-V_{SS}$) -5 ± 0.5 V
 Current consumption +5V 1mA max.
 -5V 1 mA max.
 Input high voltage 0.7 V_{DD} min.
 Input low voltage 0.3 V_{DD} max.
 Power supply for LCD drive (Recommended) (V_O-V_{EE})
 at $T_a = 0^\circ\text{C}$ 5.3 V typ.
 at $T_a = 25^\circ\text{C}$ 4.9 V typ.
 at $T_a = 50^\circ\text{C}$ 4.6 V typ.

OPTICAL DATA See page 6

