

## **The Data Book Project**

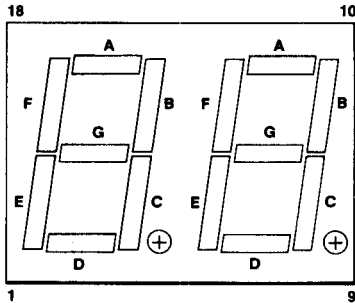
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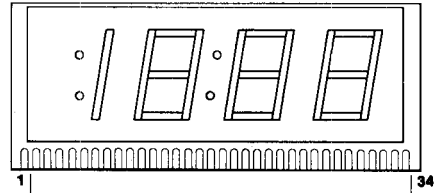
# FAIRCHILD LOGIC/CONNECTION DIAGRAMS

## OPTOELECTRONICS

**O10**



**O11**



**PIN FND6710**

- 1 E Cath. Digit 1
- 2 D Cath. Digit 1
- 3 C Cath. Digit 1
- 4 DP Cath. Digit 1
- 5 E Cath. Digit 2
- 6 D Cath. Digit 2
- 7 G Cath. Digit 2
- 8 C Cath. Digit 2
- 9 DP Cath. Digit 2
- 10 B Cath. Digit 2
- 11 A Cath. Digit 2
- 12 F Cath. Digit 2
- 13 Digit 2 Anode
- 14 Digit 1 Anode
- 15 B Cath. Digit 1
- 16 A Cath. Digit 1
- 17 G Cath. Digit 1
- 18 F Cath. Digit 1

**FND6740**

- C Cath. Digit 1
- D Cath. Digit 1
- B Cath. Digit 1
- DP Cath. Digit 1
- E Cath. Digit 2
- D Cath. Digit 2
- G Cath. Digit 2
- C Cath. Digit 2
- DP Cath. Digit 2
- B Cath. Digit 2
- A Cath. Digit 2
- F Cath. Digit 2
- Digit 2 Anode
- Digit 1 Anode
- A Cath. Digit 1
- NC
- NC
- NC

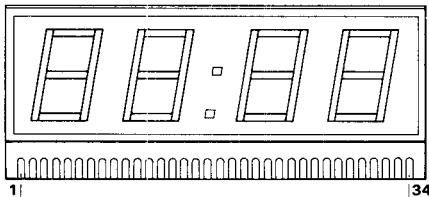
**PIN FCS8000/FCS8001**

- |             |              |
|-------------|--------------|
| 1 NC        | 18 10 Min. F |
| 2 NC        | 19 10 Min. E |
| 3 Indicator | 20 10 Min. G |
| 4 NC        | 21 10 Min. A |
| 5 Indicator | 22 10 Min. D |
| 6 10 Hrs. C | 23 10 Min. B |
| 7 10 Hrs. B | 24 10 Min. C |
| 8 NC        | 25 NC        |
| 9 Hrs. F    | 26 Min. F    |
| 10 Hrs. G   | 27 Min. E    |
| 11 Hrs. E   | 28 Min. G    |
| 12 Hrs. A   | 29 Min. A    |
| 13 Hrs. B   | 30 Min. B    |
| 14 Hrs. D   | 31 Min. C    |
| 15 Hrs. C   | 32 Min. D    |
| 16 Colons   | 33 NC        |
| 17 NC       | 34 VLED      |

**O12**

**PIN FCS8024/FCS8025**

- |             |              |
|-------------|--------------|
| 1 10 Hrs. A | 18 10 Min. F |
| 2 10 Hrs. E | 19 10 Min. E |
| 3 10 Hrs. D | 20 10 Min. G |
| 4 10 Hrs. G | 21 10 Min. A |
| 5 10 Hrs. F | 22 10 Min. D |
| 6 10 Hrs. C | 23 10 Min. B |
| 7 10 Hrs. B | 24 10 Min. C |
| 8 NC        | 25 NC        |
| 9 Hrs. F    | 26 Min. F    |
| 10 Hrs. G   | 27 Min. E    |
| 11 Hrs. E   | 28 Min. G    |
| 12 Hrs. A   | 29 Min. A    |
| 13 Hrs. B   | 30 Min. B    |
| 14 Hrs. D   | 31 Min. C    |
| 15 Hrs. C   | 32 Min. D    |
| 16 Colons   | 33 NC        |
| 17 NC       | 34 VLED      |



# FAIRCHILD OPTOELECTRONICS

## OPTO

### 7-SEGMENT NUMERIC DISPLAY ARRAYS

Item	DEVICE NO.	Digits	AM/PM	V <sub>F</sub> I <sub>F</sub> = 8.0 mA V Typ	Luminous Intensity/Seg μcd Typ	@mA	Seg/Seg Match Typ	No. of Pins	Logic/ Connection Diagram	Package No.
1	FCS6400	4	No	1.7	200	10	±33%	34	O17	Opto-24
2	FCS6401	3 1/2	Yes	1.7	200	10	±33%	34	O18	Opto-25
3	FCS8000	3 1/2	Yes	1.65	350	8.0	±33%	34	O11	Opto-17
4	FCS8024	4	No	1.65	350	8.0	±33%	34	O12	Opto-18
5	FNA3420 <sup>(3)</sup>	4	No	1.7	600	20	±33%	13	—	—
6	FNA5420	4	No	1.7	600	20	±33%	13	O13	Opto-20
7	FNA5421	3 1/2	No	1.7	600	20	±33%	13	O14	Opto-21
8	FNA5427	4	No	1.7	600	20	±33%	13	O13	Opto-20
9	FNA5428	3 1/2	No	1.7	600	20	±33%	13	O14	Opto-21
10	FNA5520	5	No	1.7	600	20	±33%	14	O15	Opto-22
11	FNA5521	4 1/2	No	1.7	600	20	±33%	14	O16	Opto-23
12	FNA5527	5	No	1.7	600	20	±33%	14	O15	Opto-22
13	FNA5528	4 1/2	No	1.7	600	20	±33%	14	O16	Opto-23

### LIQUID CRYSTAL DISPLAYS

Item	DEVICE NO. (1,2)	Description	Digit Height Hr./Min	(mm) s	Logic/Connection Diagram	Package No.
14	FLC3503-1	Ladies 3 1/2 Digit	3.3	—	O19	Opto-38
15	FLC3505-1	Mens 3 1/2 Digit	4.6	—	O20	Opto-39
16	FLC3505-2	Mens 3 1/2 Digit	5.1	—	O21	Opto-40
17	FLC3507-1 <sup>(3)</sup>	Mens 3 1/2 Digit	6.7	—	—	—
18	FLC5505-1	Mens 5 1/2 Digit	5.1	3.6	O22	Opto-41
19	FLC5505-3 <sup>(3)</sup>	Mens 5 1/2 Digit	5.3	3.8	—	—
20	FLC6005-2	Mens 6 Digit	4.6	3.1	O23	Opto-42
21	FLC6005-3 <sup>(3)</sup>	Mens 6 Digit	4.5	3.1	—	—
22	FLC8004-1 <sup>(3)</sup>	8 Digit Calculator	3.5	—	—	—
23	FLC8006-1 <sup>(3)</sup>	8 Digit Calculator	6.0	—	—	—

1. With polarizers attached, device code is followed by -P.

2. Electrical Characteristics:

Operating voltage range	3V to 6V
Visual threshold voltage (90% on)	2.8V Max
Operating frequency range	25Hz to 1KHz
Operating temperature range	-10° to 80°C

3. Consult factory.