



### Feature

1. Built-in Epson SED 1335 controller and SRAM
2. Built-in Negative Voltage generator
3. 1/240 duty cycle
4. Touch screen option (analog type)
5. Temperature compensation option.

### Pin Assignment

Pin	Symbol	Function
1	Vss	Ground
2	Vdd	Power supply for LOGIC
3	Vo	Driving voltage for LCD
4	Ao	Data type select
5	WR	Write/Read Signal
6	RD	Read signal/Enable clock
7-14	DB0-DB7	Data bus line
15	CS	Chip select, Active L
16	RES	Controller reset signal Active L
17	Vee	Negative Voltage output
18	SEL1	H:68, L:80
19	FGND	Frame Ground
20	NC	no connection

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	166.8 x 109.0	mm
Viewing Area	122.0 x 92.0	mm
Dot Size	0.34 x 0.34	mm
Dot Pitch	0.36 x 0.36	mm

### Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	-0.3	--	VDD	V

Note: VSS=0 Volt, VDD=5.0 Volt.

### Electrical Characteristics

Item	Symbol	Condition	Standard Value		Unit
			min.	typ. max.	
Input Voltage	VDD	L level	0.7V <sub>DD</sub>	--	V <sub>DD</sub>
		H level	0	--	0.3V <sub>DD</sub>
Supply Current	IDD	VDD=+5V	--	100	105
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	0°C	22.0	23.0	24.0
		25°C	21.3	22.2	23.0
		50°C	19.5	20.8	22.1
CCFL Starting Voltage	VFLS	25°C	--	600	--
CCFL Driving Voltage	VFLD	25°C	--	268	--
CCFL Driving Current	IFLD	VFO=450Vrms 30KHZ	--	5.0	--
					mA <sub>rms</sub>