

### Feature

1. SMT with metal frame
2. Built-in controller T6963
3. +5V single power supply, with built-in negative voltage
4. 1/64 duty cycle
5. Option: Array LED, edge LED, EL B/L

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	87.0 x 71.0	mm
Viewing Area	62.0 x 44.0	mm
Dot Size	0.42 x 0.58	mm
Dot Pitch	0.44 x 0.60	mm

### Pin Assignment

Pin	Symbol	Function
1	Vss	Power supply GND
2	Vdd	Power supply (+5V)
3	Vo	Contrast adjustment
4	C/D	Command/data read/write
5	RD	Data read
6	WR	Data write
7~14	DB0~7	Data bus line
15	CE	Chip enable
16	RST	Reset signal
17	Vee	Negative voltage output
18	MD2	Column No. selection (H: 32 columns, L: 40 columns)
19	FS	Font selection (H:6x8,L:8x8)
20	HLT	H: normal, L: stop clock oscillation

### Electronic Characteristics

Item	Symbol	Condition	Typical Value	Unit
Input Voltage	Vdd	Vdd = +5V	5.0	V
Supply Current	Idd	Vdd = +5V	9.7	mA
LCD Driving Voltage	Vdd - Vo	25°C	9.1	V
LED Forward Voltage	Vf	25°C	4.2	V
LED Forward Current	If	25°C	480	mA
EL Power Current	Iel	Vel=110Vac/400Hz	5.0	mA

### Dimension

