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- No. of dots : 16X16dots
- Outline dimensions : 96X96mm
- Dot size : ø5.0mm
- Dot pitch : 6.0mm
- Radiation color : Yellow-green+Red(dichromatic type)
- Driving method : 1/16 duty dynamic drive



## (Ta=25°C)

Parameter	Symbol	Rating	Unit
Supply voltage for IC	V <sub>CC</sub>	-0.3 to +6.0	V
Supply voltage for LED	V <sub>LED</sub>	-0.3 to +6.0	V
Input voltage	V <sub>I</sub>	-0.3 to V <sub>CC</sub> +0.3	V
LED current dissipation	I <sub>LED</sub>		A
Turn-on time	t <sub>ON</sub>	1	ms
Operating temperature	T <sub>opr</sub>	-10 to +45	°C
Storage temperature	T <sub>stg</sub>	-20 to +70	°C
Power dissipation	P	13	W

 $(V_{CC}=5V, V_{LED}=5V, T_a=25^{\circ}C)$ 

Parameter		Symbol	TYP.	Unit
Luminance	Red	Lv	100	cd/m <sup>2</sup>
	Yellow-green		100	
Viewing angle		2θ1/2	70	°
Peak emission wavelength	Red	λp	635	nm
	Yellow-green		565	

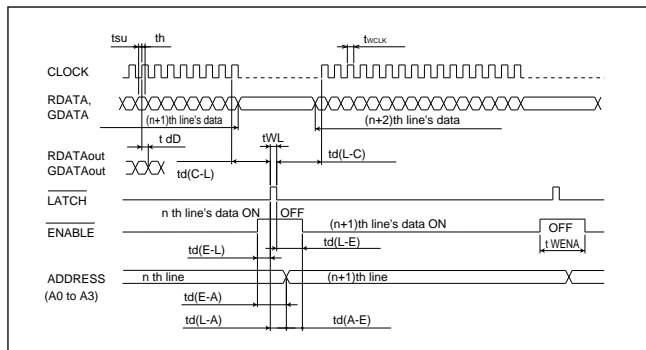
Connector	Symbol	Function
Power supply (CN1)	VLED	Supply voltage for LED (+5V)
	VCC	Supply voltage for IC (+5V)
	GND1	Ground for IC
	GND2	Ground for LED
Input signal (CN2)	A0 to A3	Address specification signal for row driver
	RDATA	Serial data input for red (H=ON, L=OFF)
	GDATA	Serial data input for yellow-green (H=ON, L=OFF)
	$\overline{\text{LATCH}}$	Latch signal of display data. H: Serial data is converted to parallel data. L: Contents are latched.
	$\overline{\text{ENABLE}}$	Controls ON/OFF of LED (H: LED OFF)
	CLOCK	Clock signal for data transmission in the shift-register. (L→H: serial data is shifted.)
	GND1	Ground for signal
	A0 to A3	Buffered input signal
Output signal (CN3)	RDATA	Input signal generated through 16-bit shift register or buffer
	GDATA	Input signal generated through 16-bit shift register or buffer
	$\overline{\text{LATCH}}$	Buffered input signal
	$\overline{\text{ENABLE}}$	Buffered input signal
	CLOCK	Buffered input signal
	GND1	Ground for signal

\* As for the terminal number, refer to the outline dimensions.

 $(V_{CC}=5V, V_{LED}=5V, T_a=25^{\circ}C)$ 

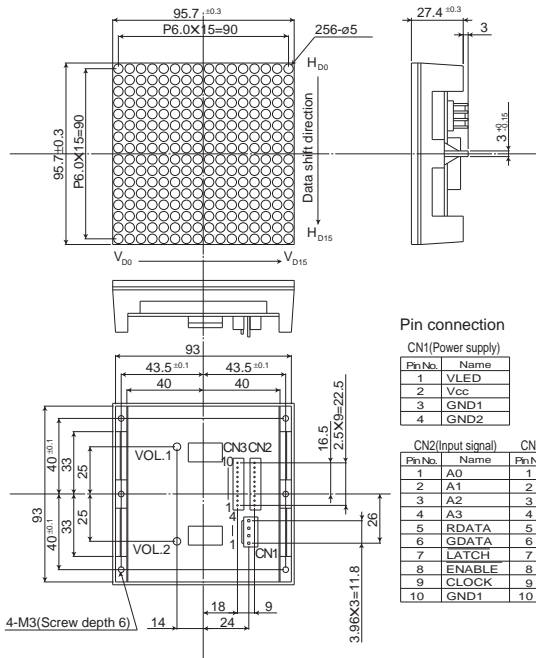
Parameter	Symbol	MIN.	TYP.	MAX.	Unit
Supply voltage for IC	V <sub>CC</sub>	4.75	5.0	5.25	V
Supply voltage for LED	V <sub>LED</sub>	4.5	5.0	5.25	V
IC current dissipation <sup>*1</sup>	I <sub>CC</sub>	—	25	50	mA
LED current dissipation <sup>*1</sup>	I <sub>LED</sub>	—	2.0	2.3	A
Input voltage	V <sub>IH</sub>	3.5	—	—	V
	V <sub>IL</sub>	—	—	1.5	V
Input current	I <sub>IH</sub>	—	—	0.1	μA
	I <sub>IL</sub>	—	—	0.12	mA
Clock frequency	f <sub>CLK</sub>	—	—	4	MHz
Frame frequency	f <sub>FR</sub>	80	—	625	Hz

## ■ Timing Chart



(Notice) ● In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

(Internet) ● Data for sharp's optoelectronic/power device is provided for internet.(Address <http://www.sharp.co.jp/ecg/>)



### Pin connection

CN1(Power supply)

Pin No.	Name
1	VLED
2	Vcc
3	GND1
4	GND2

CN2(Input signal)

CN3(Output signal)

PinNo.	Name	PinNo.	Name
1	A0	1	A0
2	A1	2	A1
3	A2	3	A2
4	A3	4	A3
5	RDATA	5	RDATA
6	GDATA	6	GDATA
7	LATCH	7	LATCH
8	ENABLE	8	ENABLE
9	CLOCK	9	CLOCK
10	GND1	10	GND1