光之宝 lightBO 深圳光之宝科技有限公司
Shenzhen Guangzhibao Technology Co.,Ltd.

SPECIFICATION FOR APPROVAL

DESCRIPTION : 2.1″ 5 x 7 Row Anode Col. Cathode Red Dot Matrix LED Display

PART NUMBER : LB05574FR1B

CUSTOMER : Attila Gyárfás

PREPARED BY: ZUGUI LAI DATE: 22/02/2013

CHECKED BY: HUIHONG WU DATE: 22/02/2013

APPROVED BY: SAN LEE DATE: 22/02/2013

APPROVED BY: (CUSTOMER) DATE:

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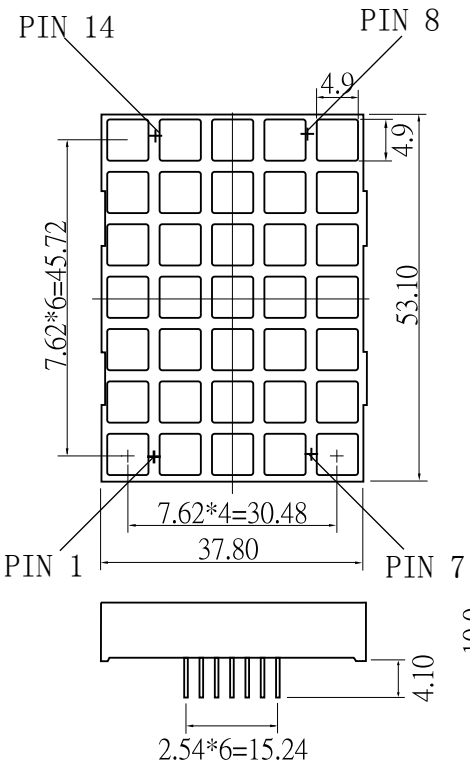
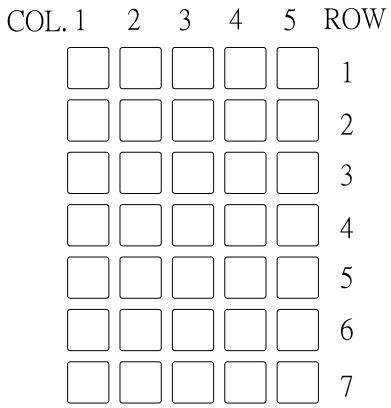
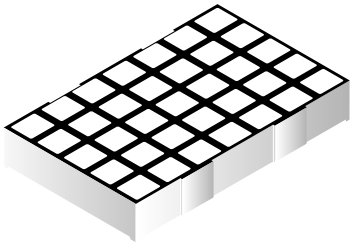
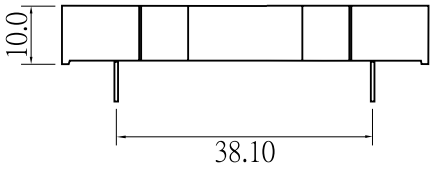
LB05574









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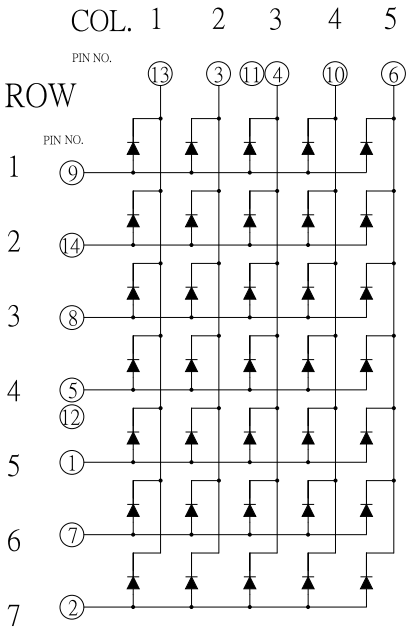

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LB05574FR1B 4.9mm 5 x 7 Square Dot-Matrix LED Display

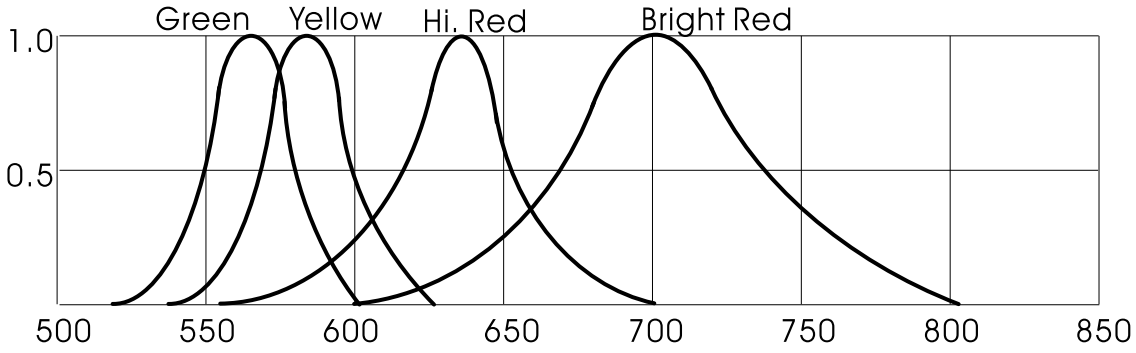
一 . Features

1. Package dimensions: 37.8 x 53.1 x 10 mm
2. Character Height : 53.1mm (2.1- inch)
3. Row Anode Column Cathode
4. Emitting Colour: Super Bright Red
5. White Dots Black Surface
6. High luminous intensity
7. Low power consumption
8. Stable performance
9. Continuous Uniform Dots
10. Big viewing angle horizontally and vertically
11. Easy mounting on PC Boards and sockets
12. Long lifetime
13. Meet RoHS

二 . Absolute Maximum Ratings (Ta = 25℃)

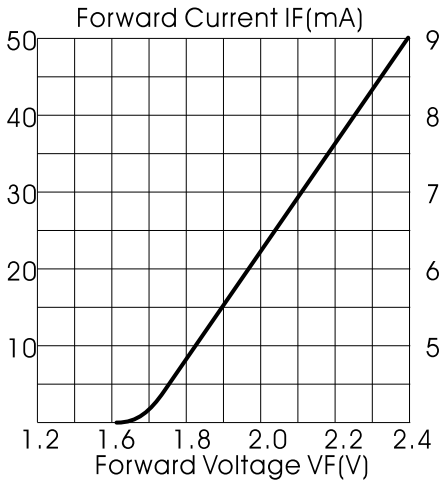
Parameter	Symbol	Ratings	Unit
Forward Current (per dot)	I_{PM}	20	Ma
Reverse Voltage (per dot)	V_R	5	V
Power Dissipation	P_M	100	mW
Operation Temperature Range	T_{opr}	-40~+85	℃
Storage Temprature Range	T_{STg}	-40~+85	℃
Solder Temprature (3 sec)	T_h	260	℃

Fig. 1



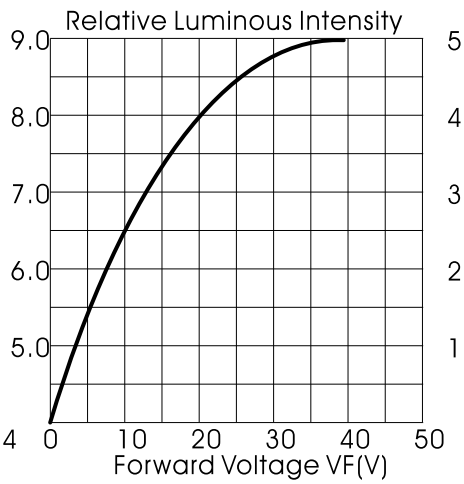
Wavelength λ (nm)
Relative Intensity vs. Wavelength

Fig. 2



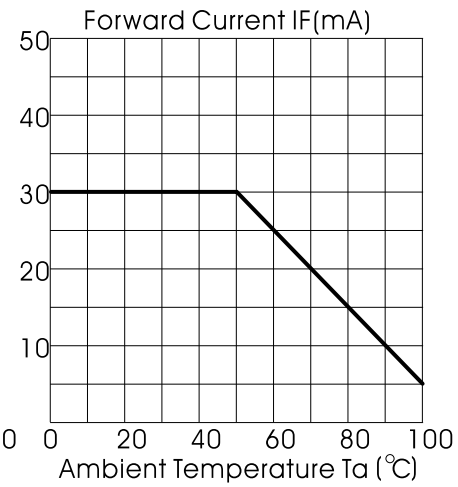
Forward Current VS
Forward Voltage.

Fig. 3



Relative Luminous Intensity
VS. Forward Current

Fig. 4



Ambient
Temperature Ta (℃)

Code: R -Super Bright Red

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	Vf	If=20uA	1.8		2.5	V
Reverse Voltage	Vr	Ir=10uA	5	-	-	V
Luminous Intensity	Iv	If=20mA	30		40	mcd
Spectrum With Of Half Value	△ λ	If=20mA		20		nm
Wavelength	D λ	If=20mA	630		633	nm

LED working lifetime 100,000 hrs
Absolute Maximum Rating at Ta=25℃