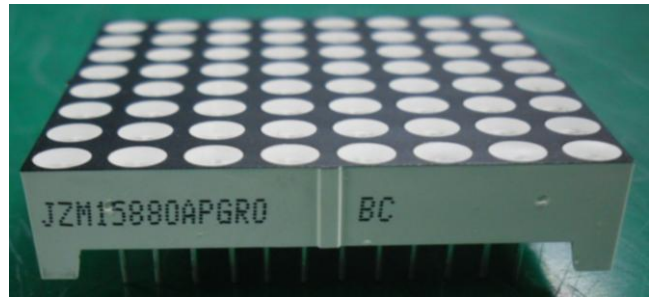


JZM15880APGRO-BC**DATA SHEET****规 格 书**

MODEL[型号]: JZM15880APGRO-BC

37.8(L)×37.8(W)×10.3(H)mm, MATRIX
in Yellowgreen and red with Water-Clear

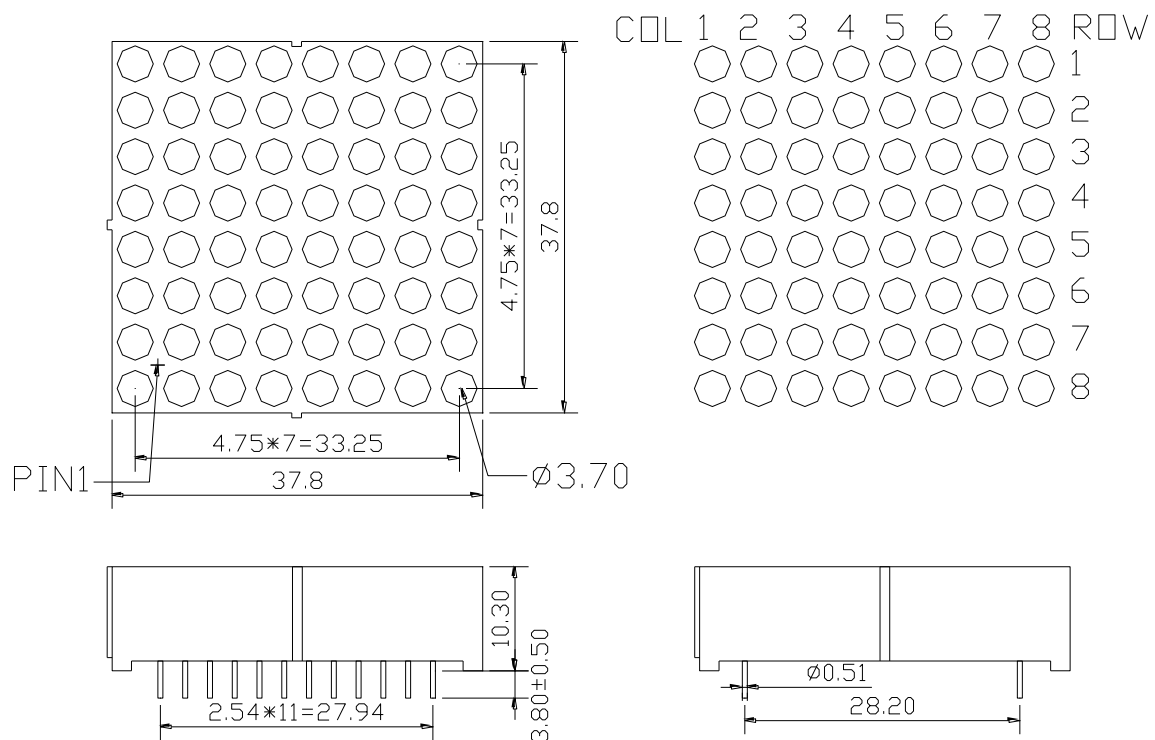
37.8(长)×37.8(宽) ×10.3(高)毫米, 双色点阵
(绿色+红色), 胶体颜色为无色透明



Applications [应用范围]

- Indoor display screen [户内显示屏]
- Others [其它]

Mechanical Dimensions [外形尺寸]

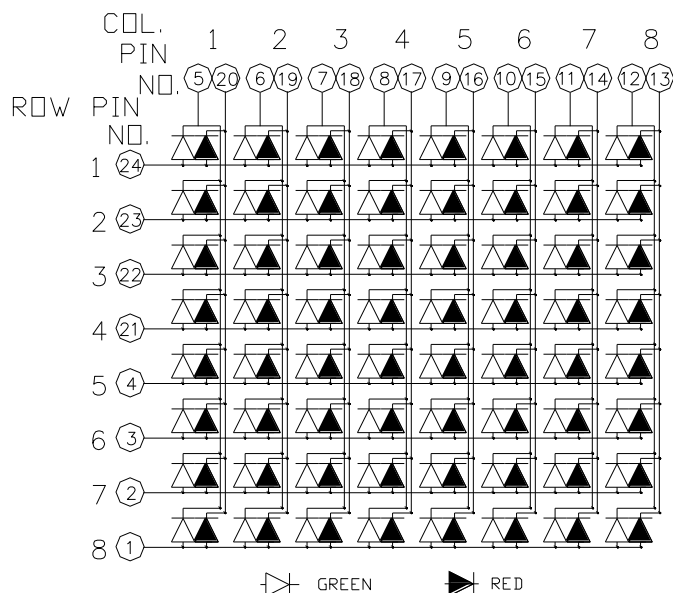


All dimension are in millimeters tolerance is±0.25mm unless otherwise noted.

[所有尺寸单位为毫米,允许公差±0.25mm,有标注除外]

INTERNAL CIRCUIT DIAGRAM: 「产品内部电路图」

JZM15880APGRO-BC



PIN CONNECTION 「PIN 连接说明」:

PIN NO.	ROW COMMON ANODE	PIN NO.	ROW COMMON ANODE
1	Anode Row 8	13	Cathode Column 8 (Red)
2	Anode Row 7	14	Cathode Column 7 (Red)
3	Anode Row 6	15	Cathode Column 6 (Red)
4	Anode Row 5	16	Cathode Column 5 (Red)
5	Cathode Column 1 (Green)	17	Cathode Column 4 (Red)
6	Cathode Column 2 (Green)	18	Cathode Column 3 (Red)
7	Cathode Column 3 (Green)	19	Cathode Column 2 (Red)
8	Cathode Column 4 (Green)	20	Cathode Column 1 (Red)
9	Cathode Column 5 (Green)	21	Anode Row 4
10	Cathode Column 6 (Green)	22	Anode Row 3
11	Cathode Column 7 (Green)	23	Anode Row 2
12	Cathode Column 8 (Green)	24	Anode Row 1

Absolute Maximum Ratings ($T_A = 25^{\circ}\text{C}$) [在 25°C 环境温度下绝对最大额定值]

Items [项目]	Symbol [符号]	Absolute Maximum Rating [绝对最大额定值]	Unit [单位]
Forward Current [正向电流]	I_F	20	mA
Peak Forward Current ^{Note} [正向峰值电流 ^注]	I_{FP}	100	mA
Reverse Voltage [反向电压]	V_R	5	V
Single Power Dissipation [单点功耗]	P_D	50	mW
Operation Temperature [工作温度]	T_{opr}	$-25 \sim +85$	$^{\circ}\text{C}$
Storage Temperature [贮藏条件]	T_{stg}	$-25 \sim +85$	$^{\circ}\text{C}$

Note: Pulse width ≤ 0.1 msec, duty cycle $\leq 1/10$.

[注: 脉宽 ≤ 0.1 msec, 周期 $\leq 1/10$]

Typical Electrical & Optical Characteristics ($T_A = 25^{\circ}\text{C}$)
典型电性和光学特性 ($T_A = 25^{\circ}\text{C}$)

Parameter 参数	Symbol 符号	Test Condition 测试条件	MIN. 最小值	TYP. 典型值	MAX. 最大值	UNIT 单位
Luminous Intensity Per Dot 每点亮度 (红色)	I_v	$I_F = 20\text{mA}$	100	110	120	mcd
Luminous Intensity Per Dot 每点亮度 (黄绿色)	I_v	$I_F = 20\text{mA}$	280	290	300	mcd
Dominant Wavelength 主波长 (红色)	λ_D	$I_F = 20\text{mA}$	620	621	623	nm
Dominant Wavelength 主波长 (黄绿色)	λ_D	$I_F = 20\text{mA}$	520	521.5	522.5	nm
Forward Voltage Per Dot 每点正向电压 (红色)	V_F	$I_F = 20\text{mA}$	1.8	2.1	2.5	V
Forward Voltage Per Dot 每点正向电压 (黄绿色)	V_F	$I_F = 20\text{mA}$	2.8	3.2	4.0	V
Reverse Current Per Dot 每点反向电流	I_R	$V_R = 5\text{V}$	/	/	50	μA
Luminous Intensity Matching Ratio (Dot To Dot) 点与点之间亮度比	I_{v-m}	$I_F = 20\text{mA}$	/	/	1:1.1	/

Notes:

1. Tolerance of measurement of luminous intensity is $\pm 10\%$.
2. Tolerance of measurement of the dominant wavelength is ± 1 nm.
3. Tolerance of measurement of VF is ± 0.1 V.

重要说明:

1. 每个BIN的亮度最大误差 $\pm 10\%$.
2. 每个BIN的波长最大误差 ± 1 nm.
3. 每个BIN的电压最大误差 ± 0.1 V.

Graphs [光电特征图]

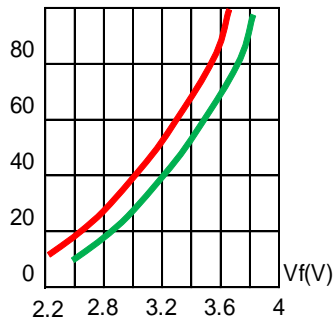


Fig.1 FORWARD CURRENT VS. FORWARD VOLTAGE.

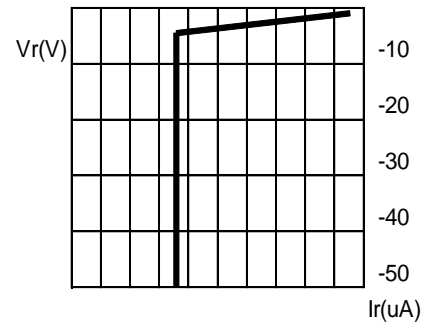
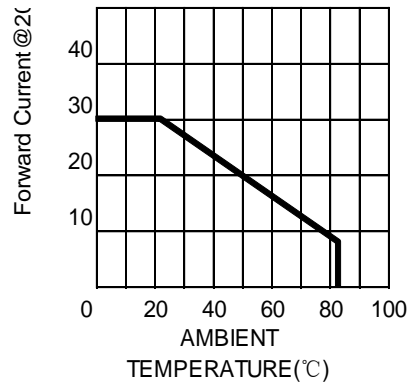


Fig.2 REVERSE CURRENT VS. REVERSE VOLTAGE.

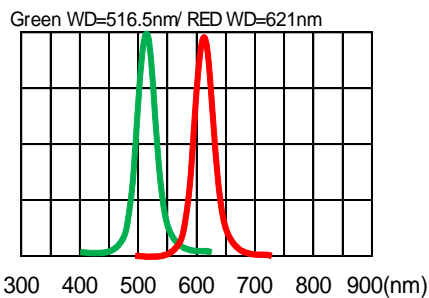


Fig.4 RELATIVE LUMINOUS INTENSITY VS. WAVELENGTH.

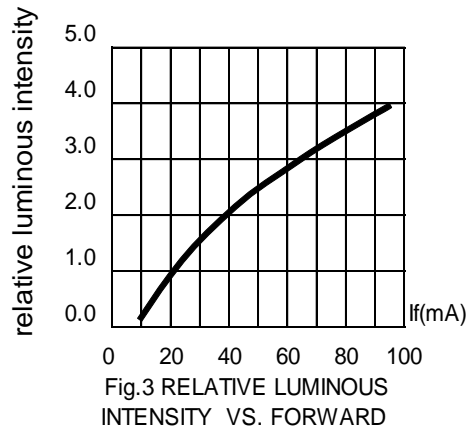


Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD

Soldering Condition (Pb-Free)

1. Iron:

Soldering Iron: 30W Max

Temperature 350°C Max

Soldering Time: 3 Seconds Max (One time only)

Distance: Solder Temperature 1/16Inch Below Seating Plane

For 3 Seconds At 260°C

2. Wave Soldering Profile

Dip Soldering

Preheat:120°C Max

Preheat time:60 seconds Max

Ramp-up

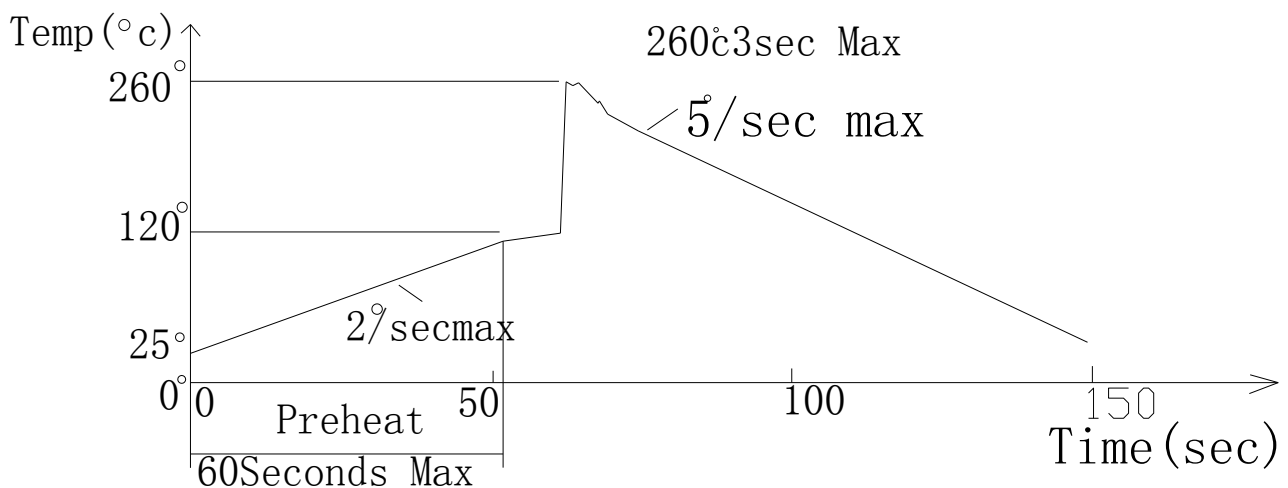
2°C/sec(max)

Ramp-Down:-5°C/sec(max)

Solder Bath:260°C Max

Dipping Time:3 seconds Max

Distance:Solder Temperature 1/16Inch Below Seating Plane for 3 Seconds At 260°C



Note:1.Wave solder should not be made more than one time.

2.You can just only select one of the soldering conditions as above.

Cleaning

It is recommended that isopropyl alcohol be used as a solvent for cleaning the LEDs. Do not clean the LEDs by the other solvents and the ultrasonic.

清洗

建议用以酒精为主的溶剂清洗产品.不可使用其他溶剂和超声波进行清洗.

ESD (Electrostatic Discharge)

Surge Static voltage will damage the LED. It is recommended that a wrist band or anti-electrostatic glove should be used when handling these LEDs. All devices, equipment and machinery must be properly grounded

ESD (静电防护)

静电会损坏发光二极管, 接触发光二极管的过程中请使用防静电手腕或戴防备静电手套.所有装置、仪器和机器必须完好接地.

Notes [说明]

RoHS Compliance

The levels of environmentally sensitive, persistent biologically toxic (PBT), persistent organic pollutants (POP), or otherwise restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS), as amended through April 21, 2006.

Vision Advisory Claim

Users should be cautioned not to stare at the light of this LED product. The bright light can damage the eye.

符合 RoHS

根据于 2006 年 4 月 21 日修正的欧盟 2002/95/EC 指令中关于限制电子产品以及电子设备中含有某些特定的有害物质的规定 (RoHS),该产品在环境敏感度, 长期生物毒性 (树脂), 持久性有机污染物 (POP), 以及其他严格禁止使用的材料等方面, 含有量都低于最大限度值 (也称为临界值)

注意保护眼睛

用户应注意不要近距离直视产品,以防过亮的光线损害眼睛.