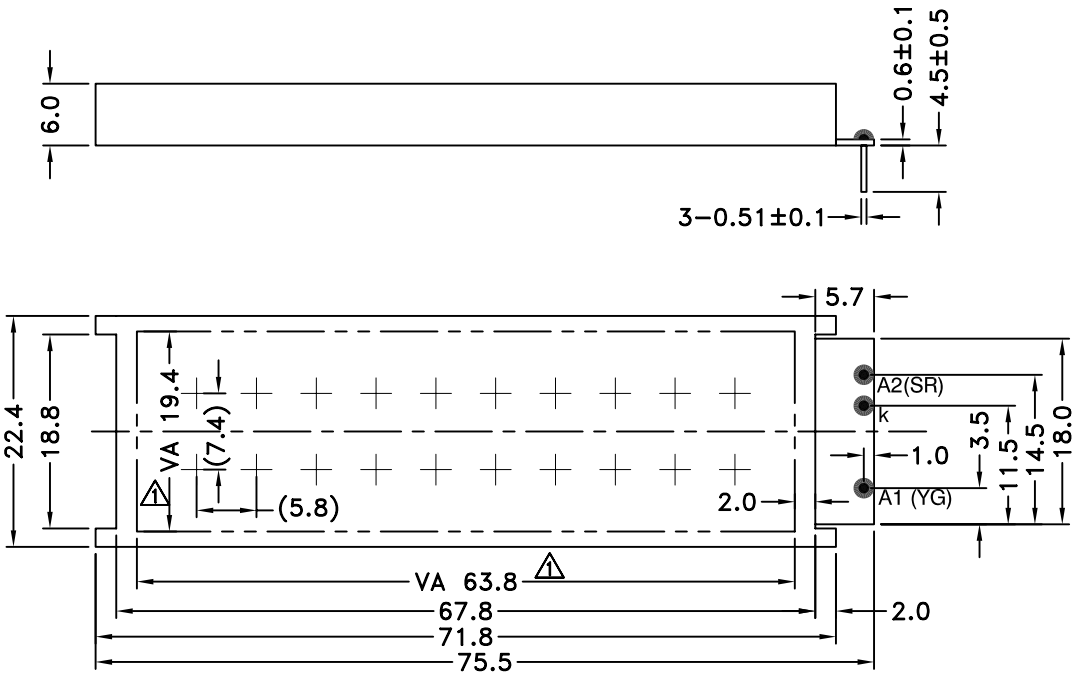
WAICHI ELECTRONICS LTD.

LED BACKLIGHT
FOR LCD DISPLAY

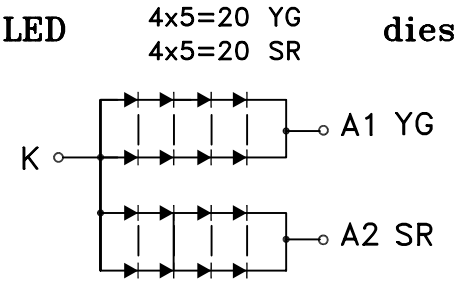
1. 结构尺寸 MECHANICAL OUTLINE

(未注尺寸公差 Unspecified Tolerances is .XX± 0.3 .X ± 0.3)

COLOR : YG+SR
颜色 : 黄绿色+亮红
UNIT : mm



2. 电路图 CIRCUIT DIAGRAM (LED dies)



NOTE:
1.(): REFERENCE DIMENSION.
2.▽: SPECIAL CHARACTERISTIC.

3. 保存和焊接条件 STORAGE & SOLDERING CONDITIONS:

- Store with care. Storing the units in bad condition will cause the reflector sheet and decrease it's adhesive power. Storage The products under the condition: temperature (25°c ±10°C) and humidity (65%RH±20%RH) our recommendation.
- The Soldering Temperature is 260±5°C and Soldering Time should be less than 3 sec, and soldering iron power should be less than 30W.
- The soldering point should be farther than 1.6mm (1/10") from body .

- 注意保存.保存条件不好时,会降低反光膜(扩散膜)与导光片(反射壳)的粘附力.
  推荐保存条件为: 温度 25°C±10°C
  湿度 65%RH±20%RH
- 焊接温度 260°C±5°C, 焊接时间小于 3 秒, 烙铁功率小于 30W.
- 焊接点应离产品 实体大于1.6 mm.

ISSUE 标识	AMENDMENT 改正内容	Date: 日期				DESIGN: 设计
1	尺寸	040110				CHECKED: 检查
						COUNTERSIGN: 会签
			Drawing No: 图号	WA663.2.01	REV: 版本 A3	APPROVED: 批准

ADD: Rm.1004,Hewlett Center,52-54 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong
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日期 Date: 2004.07.22

4. 极限参数 ABSOLUTE MAXIMUM RATINGS

(除非特别说明,环境温度 Ta=25°C. Unless specified,The Ambient temperature Ta=25°C)

项目 Item	符号 Symbel	条件 Conditions	值 Rating YG	值 Rating SR	单位 Unit
* 极限直流正向电流 Absolute maximum forward current	Ifm		100	100	mA
* 脉冲驱动时极限正向电流 Peak forward current	Ifp	1 msec脉冲,1/10占空比 1 msec Plus 10% Duty Cycle	240	240	mA
反向电压 Reverse Voltage	Vr		5	5	V
* 极限功耗 Power dissipation	Pd		1000	1000	mW
工作温度 Operating Temperature Range	Topr		−30~+70		°C
贮存温度 Storage Temperature Range	Tstg		−40~+80		°C

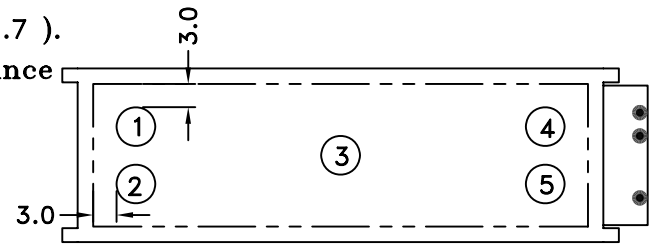
* 当工作温度高于25°C 时,Ifm、Ifp 和Pd 必须降低;电流降低率是 $^{YG\ -1.8}_{SR\ -1.8}$ mA/°c(直流驱动),或 $^{YG\ -4.3}_{SR\ -4.3}$ mA/°c(脉冲驱动),功耗降低率是 $^{YG\ -15.0}_{SR\ -15.0}$ mW/°C.产品的工作电流不能大于对应工作温度条件 Ifm 或 Ifp 的 60 %.
For operation above 25°C,The Ifm Ifp & Pd must be derated,the Curent derating is $^{YG\ -1.8}_{SR\ -1.8}$ mA/°c for DC drive and $^{YG\ -4.3}_{SR\ -4.3}$ mA/°c for Pulse drive,the Power dissipation is $^{YG\ -15.0}_{SR\ -15.0}$ mW/°c.
The product working current must not more than the 60 % of the Ifm ir Ifp according to the working temperature.

5. 电、光特性 ELECTRICAL−OPTICAL CHARACTERISTICS

(除非特别说明,环境温度 Ta=25°C. Unless specified,The Ambient temperature Ta=25°C)

项目 Item	符号 Symbel	YG 最小值 min.	YG 典型值 typ.	YG 最大值 max.	RED 最小值 min.	RED 典型值 typ.	RED 最大值 max.	单位 Unit	测定条件 Condition
正向电压 Forward Voltage	Vf	7.6	8.0	8.4	7.5	7.8	8.1	V	If= 50 mA
反向电流 Reverse Current	Ir			100			100	μA	Vr= 5 V
主波长 Dominant wave length	λD	569	572	575	640	650	660	nm	If=100mA
频谱半宽度 Spectral Line Half width	△λ		30			20		nm	If=100mA
* 亮度 Luminance	Lv	78	104		338	450		cd/m²	If= 50 mA

* 亮度值是 5 个测量点的平均值,亮度最大值比最小值一般小于1.5 (最大 1.7).
使用BM−7亮度色度仪测量, 测量光圈ø 5 mm.(单色测试)
The luminance is the average value of 5 points, and The Lvmax./Lvmin. is less than 1.5 Typical (max 1.7). The measurement instrument is BM−7 luminance Colorimeter.The caperture is ø 5 mm.



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