



中山市晶明光电科技有限公司  
ZHONGSHAN SILSMART OPTOELECTRONICS CO., LTD.

## 样品规格书

### SPECIFICATION

产品名称：0.47 “四位米字数码管 Product Name: LED Display	发光颜色:蓝色 Emitted Color: Blue	封胶：封胶 Filler: Resin
产品型号： Product No: JMF-4473BB3-059-P4.0	极性：共阳 Polarity: Common Anode	面色：黑面白胶
产品编码： Product Code:	样品单号： Sample NO:	
注：所有材料均符合 ROHS 要求 All materials are RoHS compliant!		

日期:2019/6/25 Date:	承办人:叶开波 Issuer:
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### 客户确认 APPROVED BY

客户： Customer:	签名： Signature:
机型： Model No:	日期： 2016/6/14
料号： Part No:	Date:

结论 Result:

确认后请回传 PLEASE RETURN BY A COPY

设计 (DESIGN): \_\_\_\_\_ 检查 (CHECKED): \_\_\_\_\_ 批准 (APPROVED): \_\_\_\_\_  
产品说明书



## 1. 极限参数 (Absolute Maximum Ratings)

### (1) 蓝色(Blue)

参数 (Parameter)	符号 (Symbol)	极限值 (Maximum)	单位 (Unit)
功耗 (Power Dissipation)	Pd	90	mW
脉冲电流 (Peak Forward Current)	Ifp	80	mA
直流电流 (Continuous Forward Current)	Ifm	20	mA
反向电压 (Reverse Voltage)	VR	6	V
工作温度 (Operating Temperature Range)	Topr	-20 → +80	°C
储藏温度 (Storage Temperature Range)	Tstg	-20 → +65	°C
静电电压 (Static Voltage)	Var		V

\*焊接温度 (Lead Soldering Temperature): 260°C for 3 seconds

\*当工作温度高于 25°C 时, Ifm、Ifp、Pd 必须降低; 电流降低率是-0.36mA/°C (直流驱动), 或-0.86mA/°C (脉冲驱动) 功耗降低率是-0.75mW/°C。

The Ifm Ifp & Pd must be decreased once the temperature is over 25 °C; the Current decrease rate is: -0.36mA/°C (Direct Current); -0.86mA/°C (Pulse drive) the power dissipation is -0.75mW/°C

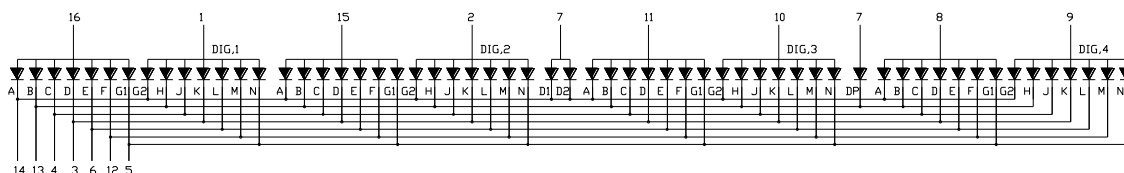
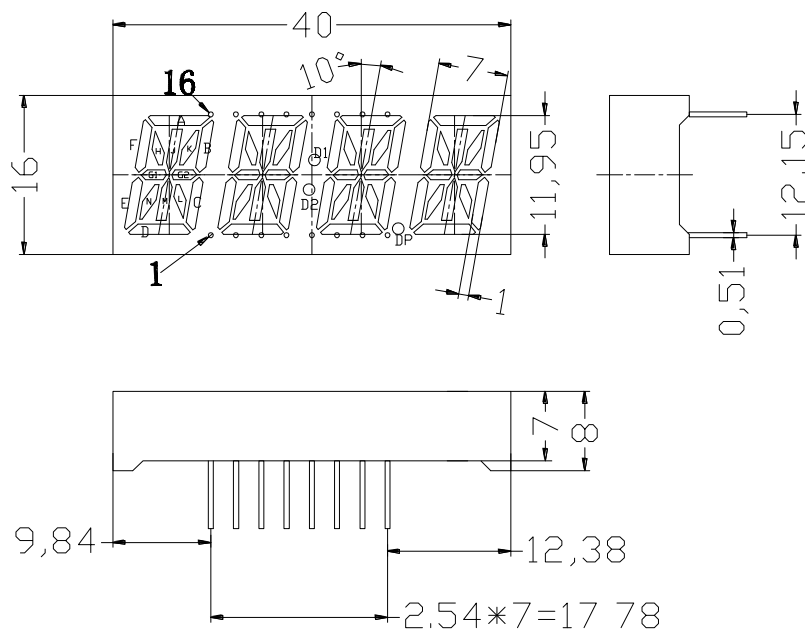
## 2. 光电特性 (Optical-Electrical Characteristic)

### (1) 蓝色(Blue)

参数 (Parameter)	测试条件 (Test)	符号 (Symbol)	Min	Type	Max	单位 (Unit)
发光强度 (Luminous Intensity)	If=20mA	Iv	90	-	95	MW
正向电压 (Forward Voltage)	If=20mA	VF	2.7	-	3.6	V
反向电流 (REVERSE Current)	VR = 5V	IR	-	-	20	uA
主波长 (Wavelength)	If=20mA	λD	455	-	457.5	nm
查看角度 (View Angle)	If=20mA	2θ1/2	-	60	-	Deg.

### 3.结构尺寸、原理图 (Mechanical Dimension and Circuit Diagram) :

(未注尺寸公差 Unspecified Tolerances is:  $X \pm 0.2$  )



### 4.保存和焊接条件 (Storage & Soldering Conditions) :

- Store with care. Storing the units in bad condition will decrease the adhesive power between the reflector and film. 注意保存, 保存条件不好时, 会降低膜片与反射壳(导光板)的粘附力。 Recommend storage condition : temperature (  $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$  ) 推荐保存条件为: 温度  $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$  and humidity (  $65^{\circ}\text{C CRH} \pm 20^{\circ}\text{C CRH}$  ) 湿度  $65^{\circ}\text{C CRH} \pm 20^{\circ}\text{C CRH}$
- The Soldering Temperature is  $260 \pm 5^{\circ}\text{C}$  and Soldering time should be less than 3 seconds, and soldering iron power should be less than 30W. 焊接温度  $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , 焊接时间小于 3 秒, 烙铁功率小于 30W。
- The soldering point should be at least 1.6mm away from the body. 焊接点应离产品实体大于 1.6mm。

## 5. 光电特性曲线 (Typical Electro optical Characteristics Curve):

