



洲光源  
CHAULIGHT

# 产品规格书 SPECIFICATION

客户名称: 小米通讯技术有限公司

Customer Name

产品类型: COB3511

Product Name

产品型号: ZSBM-1135-160W4(Mi)

Part No.

<input type="checkbox"/> 技术参考 Technical Reference	<input type="checkbox"/> 样品 Sample	<input type="checkbox"/> 量产供货 Mass Product		
客户审核 (加盖公章) Client approval (Stamp)		洲光源审核 Chaulight approval		
核准 Approval	确认 Checked	核准 Approval	确认 Checked	制作 Edited
		郝三强	谢育国	吉召召
<input type="checkbox"/> 接收 Qualified	<input type="checkbox"/> 不接收 Disqualified	日期 Date: 2024.07.19		

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广东洲光源红外半导体有限公司  
Guangdong Chaulight Infrared Semiconductor Co.,Ltd.

ZSBM-1135-160W4(Mi)是一条带线束的小型 COB 集成光源，  
发光角度大，光通量高，占用空间小。

ZSBM-1135-160W4(Mi) is a small COB integrated light source with a wiring harness,  
with a large luminous angle, high luminous flux, and small space occupation

## 特性 Feature

--适用于补光、照明使用.

Suitable for supplementary lighting and lighting use

--色温 4500~6000K

Color temperature 4500~6000K

--无铅材料、RoHS 认证

Pb.Free、RoHS compliant version

## 应用 Application

- 室内、半户外照明、商业照明、补光灯等

Optical indicator、 Indoor display、 Backlight for LCD、 switch and Symbol、 display

## 最大额定值 Absolute Maximum Ratings

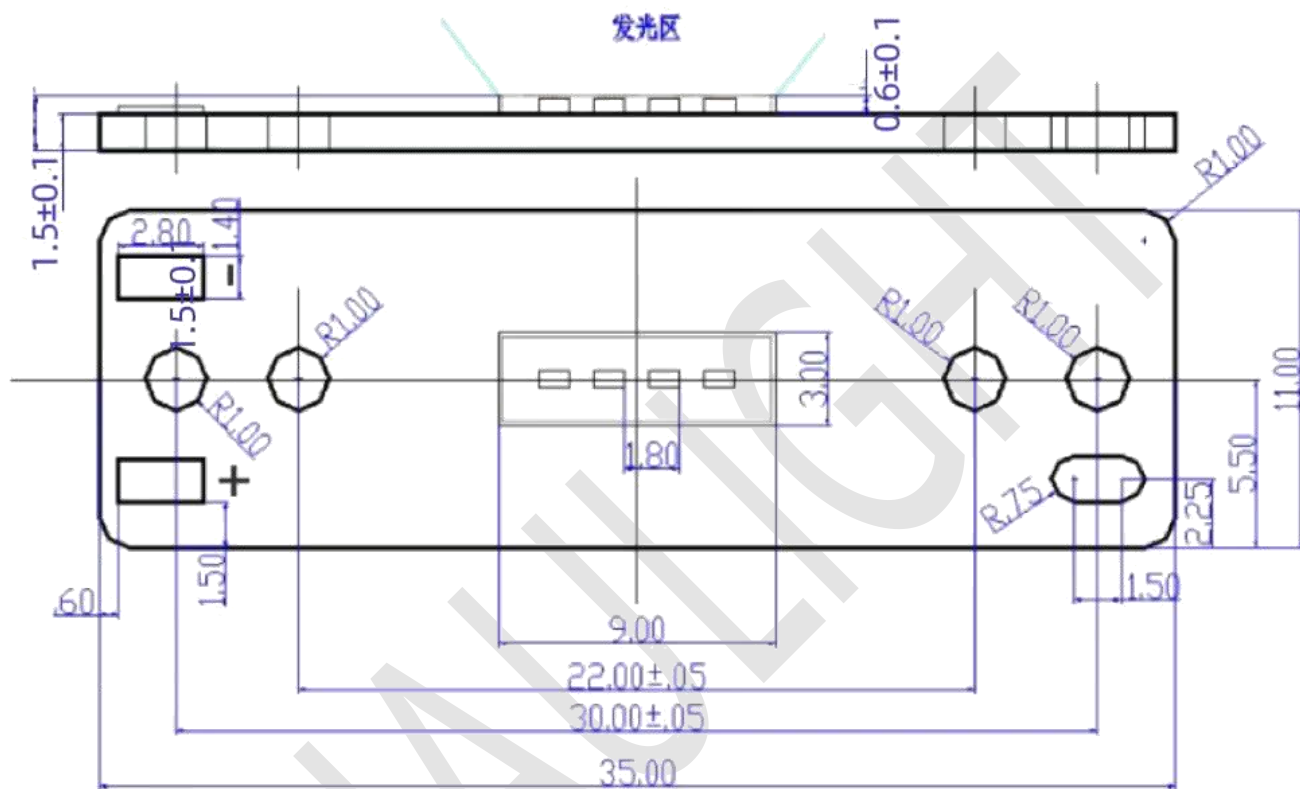
测试项目 Parameter (Ta=25°C) *1	符合 Symbol	范围 Ratings	单位 Unit
功耗 Power Dissipation	Pd	2000	mW
反向电压 Reverse Voltage	V <sub>R</sub>	20	V
持续正向电流 Forward Current	I <sub>F</sub>	150	mA
脉冲电流 Maximum Surge Current *2	I <sub>FP</sub>	220	mA
工作温度 Operating Temperature	Topr	-20~+75	°C
储存温度 Storage Temperature	Tstg	-40~+100	°C
抗静电能力 Electrostatic Discharge	ESD	2000(HBM)	V
引线焊接温度 Lead Soldering Temperature*3	Tsol	手动焊: 300°C,5s	°C

\*1、在 25 摄氏度的环境中测试 below 25 Free Air Temperature.

\*2、脉宽少于等于 100us，占空比 1% Pulse width ≤ 100μs, Duty cycle= 1%.

\*3、离线皮 2mm 以上焊接 5s 内 2mm form body for 5 seconds.

## 产品尺寸 Package Dimension



## 备注 Notes:

- 1、尺寸单位为 mm，未标注公差为 $\pm 0.25\text{mm}$
- 2、产品为 4 颗蓝色 LED 串联，其上涂透光胶，再上荧光粉.
- 3、白色显色指数 $\geq 80$ ，色温 4500~6000K，整个器件光通量 $\geq 160(\text{Lm})$ .
- 4、留焊盘不焊线

## 光电特性 Electro-Optical Characteristics

电性参数 (温度=25℃) Parameter (Ta=25℃)	符号 Symbol	条件 Condition	最小值 Min.	典型值 Typ.	最大值 Max.	单位 Units
正向电压 Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =120mA	12	---	14	V
色温 Color temperature	TC	I <sub>F</sub> =120mA	4500	5500	6000	K
光通量 luminous flux	Φ <sub>V</sub>	I <sub>F</sub> =120mA	160	--	--	lm
光效 Light effect	LM/W	I <sub>F</sub> =120mA	100	--	130	Lm/W
热阻 thermal resistance	R <sub>θJ-C</sub>		--	<3.0	--	℃/W
发光角度 View Angle	2θ1/2	I <sub>F</sub> =120mA	---	120	---	deg
CIE 坐标值 CIE coordinate value note	X	I <sub>F</sub> =120mA	0.32	--	0.34	--
	Y	I <sub>F</sub> =120mA	0.33	--	0.36	-

备注 Notes:

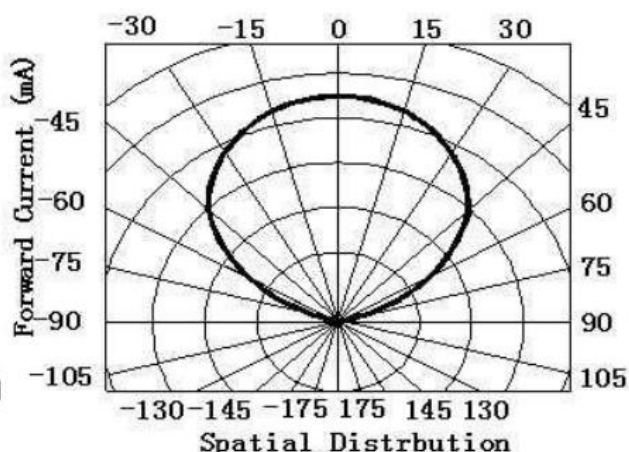
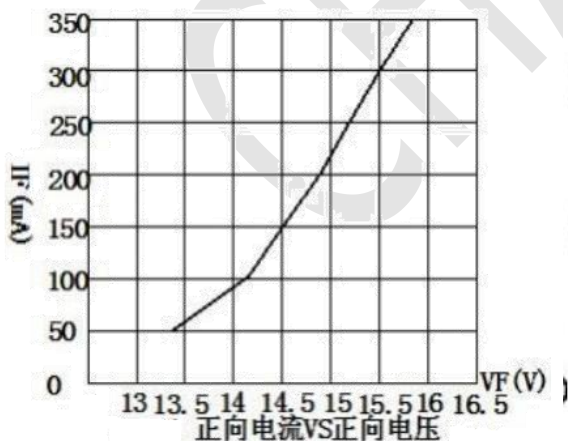
--正向电压的测量公差是±0.1V

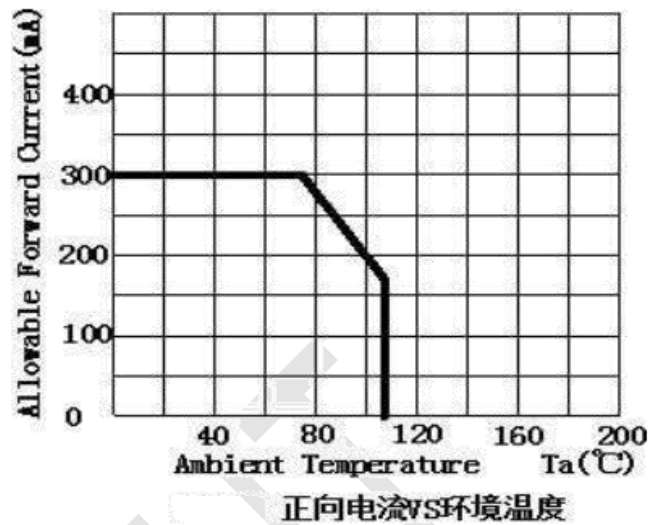
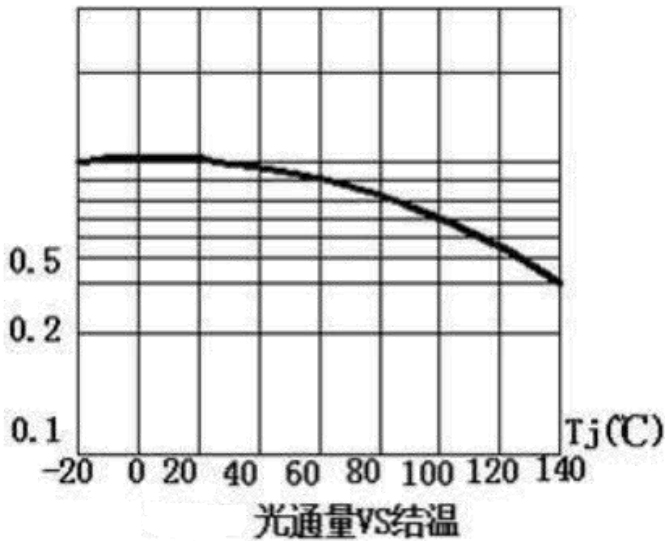
Measurement Uncertainty of Forward Voltage: ±0.1V

--发光强度的测量公差是±20%

Measurement Uncertainty of Luminous Intensity: ±20%

## 典型光电特性曲线图 Typical Electro-Optical Characteristics Curve





## ► 注意事项 Note

### --其他 Other

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## ► 更改记录表 Engineering Change Notice-Record

版本 Edition	更改日期 Date	主要更改内容 Main Content	拟制 Prepared	确认 Checked
1.1	2024.07.19	新版本发布 New Edition	谢小金	郝三强
1.2	2024.08.06	胶体高度从 1.5 变成 0.6	谢小金	郝三强
1.3	2024.08.23	焊盘正负极调换	谢小金	郝三强
1.4	2024.9.13	PCB 高度 1.2 变更 1.5mm	谢小金	郝三强