

规格书

SPECIFICATION

品名 ITEM	发光二极管 LED LAMP
型号 Part Number	2B34SC-35

1. 表述 Description

型号	发光颜色	胶体颜色	芯片材质
Part Number	Color	Lens Color	Chip Material
2B34SC-35	蓝色	透明	

2. 绝对最大额定值 Absolute Maximum Ratings

(Ta=25°C)

项目 Parameter	符号 Symbol	额定值 Ratings	单位 Unit
功率消耗 Power Dissipation	P_D		mW
正向电流 Forward Current	I_F	30	mA
正向电流峰值 Pulse Forward Current	I_{FP}	80	mA
反向电压 Reverse Voltage	V_R	5	V
操作温度 Operation Temperature	T_{opr}	-30 ~ +80	°C
贮存温度 Storage Temperature	T_{stg}	-40 ~ +100	°C
焊接时间 Soldering Temperature *2	T_{sol}	Max. 260°C for 5sec	

Note: *1 I_{FP} Conditions = Duty ratio ≤ 1/8, and Pulse width ≤ 0.1ms

*2 At the position of 2mm from the bottom face of LED package

3. 电性/光学特性 Electrical / Optical Characteristics

(Ta=25°C)

项目 Parameter	符号 Symbol	测试条件 Condition	值 Value			单位 Unit
			Min	Typ	Max	
正向电压 Forward Voltage	V_{F1}	IF=20mA		3.2		V
	V_{F2}	IF=20mA		-		V
峰值波长 Peak Wavelength	λ_p	IF=20mA		462		Nm
主波长 Dominant Wavelength	λ_d	IF=20mA		465		Nm
半波谱 Spectral Line Half Width	$\Delta\lambda$	IF=20mA				Nm
反向电流 Reverse Current	I_R	$V_R=5V$	10			uA
发光角度 Viewing Angle *1	$2\theta_{1/2}$	X-axis		70		deg
发光角度 Viewing Angle	$2\theta_{1/2}$	Y-axis	-	-	-	deg
发光亮度 Luminous Intensity	Rank A	I_v	IF=20mA			-
	Rank B				400	
	Rank C				-	-

Note *1 : $\theta_{1/2}$ is the off-axis where the luminous intensity is $\frac{1}{2}$ the peak intensity.

4. 可靠性测试 Reliability Test

项目 Item	测试条件 Condition	时间 Time	Number of Damage
寿命测试 Life Test	$T_a = RT., t = 1000hr, I_f = 30 \text{ mA}$	1000Hr	0/22
High Temperature Operating	$T_a = +80 \text{ }^{\circ}\text{C}, t = 500hr, I_f = 8\text{mA}$	1000Hr	0/22
Low Temperature Operating	$T_a = -30 \text{ }^{\circ}\text{C}, t = 1000hr, I_f = 20\text{mA}$	1000Hr	0/22
Temperature Cycle	$T_a = -30 \text{ }^{\circ}\text{C} \sim +80^{\circ}\text{C}$ $(1\text{Cycle} = 1hr)$	100Cycles	0/22
Resistance To Soldering Heat	$T_s = 260 \pm 5 \text{ }^{\circ}\text{C}, t = 5 \pm 1\text{sec}$	1Time	0/22

5. TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CUVES

Fig. 1:Forward Current vs.Forward Voltage

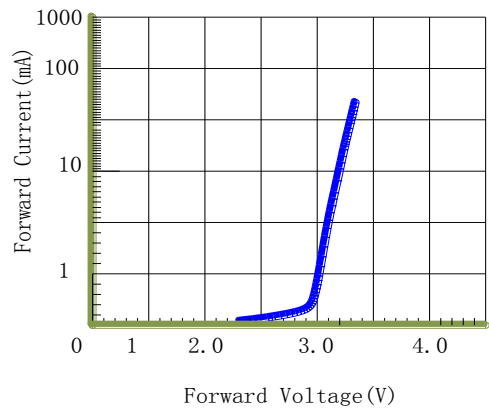


Fig. 2:Intensity VS. Forward Current

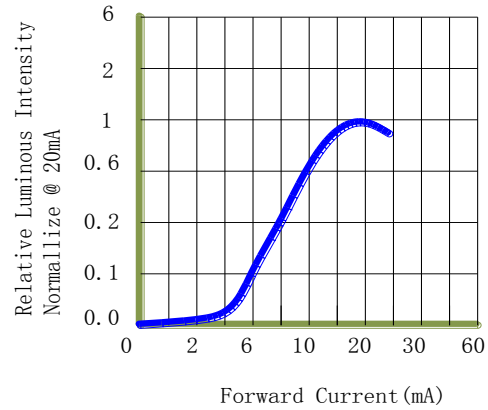


Fig. 3:Spectrum Wavelength

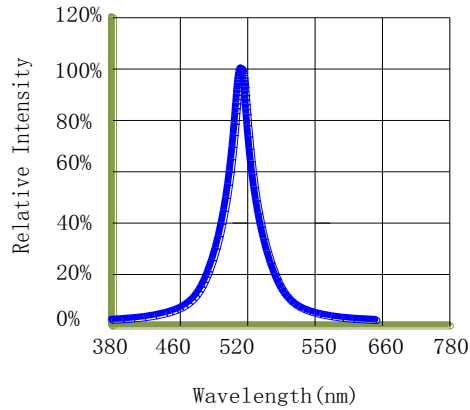


Fig. 4:Relative IntensityNormalize @ 20mA

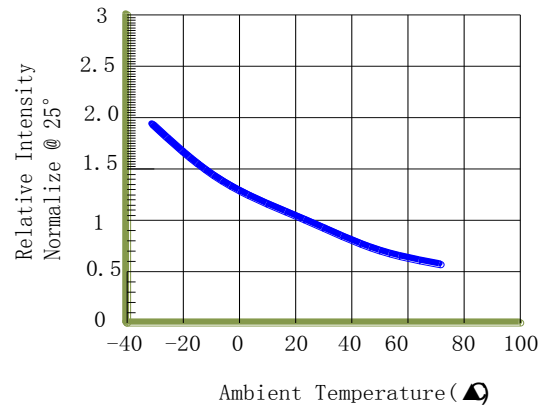
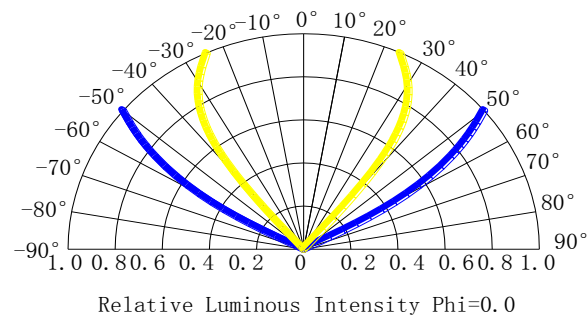


Fig. 5:Radlation Diagram

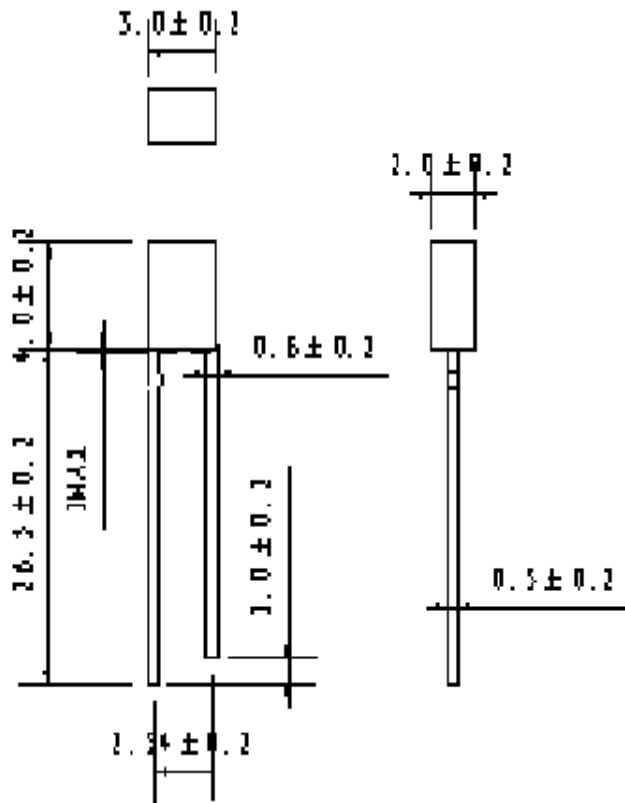


6. 封装尺寸 Package Dimension

Note) 1. All dimensions are in millimeters.

2. Pin Connections : (1) Anode(正极)

(2) Cathode (负极)



3. Tolerance : ± 0.2