

规格书

SPECIFICATION

品名 ITEM	发光二极管 LED LAMP
型号 Part Number	3BG4UC17

1. 表述 Description

型号 Part Number	发光颜色 Color	胶体颜色 Lens Color	芯片材质 Chip Material
3BG4UC17	Green	Water clear	GaInN

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
正向电流	I_F	20	mA

Forward Current			
反向电压 Reverse Voltage	V_R	5	V
操作温度 Operation Temperature	T_{opr}	-30 ~ +85	°C
贮存温度 Storage Temperature	T_{stg}	-40 ~ +85	°C
焊接时间 Soldering Temperature ^{*2}	T_{sol}	Wave Soldering: 260°CFor 5 Sec Hand Solder: 300°CFor 3 Sec	

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_F	IF=20mA	2.8		3.8	V
峰值波长 Peak Wavelength	λ_p	IF=20mA		620		nm
反向电流 Reverse Current	I_R	$V_R=5V$	—	—	10	uA
发光角度 Viewing Angle ^{*1}	$2\theta^{1/2}$	IF=20mA	—	140	—	deg
发光强度 Luminous Intensity	I_V	IF=20mA	—	350	—	mcd

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	$T_a = RT., t = 1000hr, I_f = 20 \text{ mA}$	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	$T_s = 260 \pm 5 \text{ }^{\circ}\text{C}, t = 5 \pm 1sec$	1Time	0/22

5. 封装尺寸 Package Dimension

Note) 1. All dimensions are in millimeters.

2. Tolerance is $\pm 0.25\text{mm}$, Unless otherwise specified.

