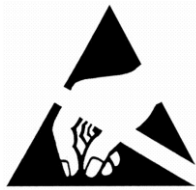


HL-798H302BC

HL-798H302BC



ATTENTION 注意
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES
请勿裸手接触器



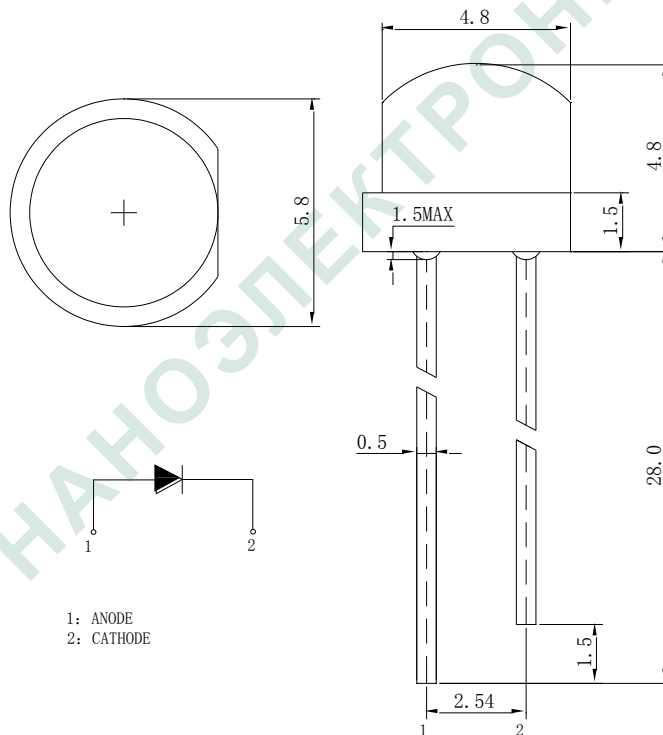
Features (特征)

- ϕ 4.8 LAMP LED 直插 ϕ 4.8LED 灯
- LOW POWER CONSUMPTION.低功耗
- WIDE VIEWING ANGLE.小角度
- IDEAL FOR BACKLIGHT AND INDICATOR.
用于背光和指示
- PACKAGE: 1000PCS / BAG. 包装:1000PCS/袋

Description 描述

This devices are made with GaN.
LED 芯片组成元素为 GaN.

Package Dimensions 封装尺寸



Tolerance Grade 公差等级	Dimension Tolerance (UNIT:mm) 尺寸公差 (单位:mm)			
	0.5~3	3~6	6~30	30~120
	±0.1	±0.2	±0.3	±0.5
Chip 晶片			Lens Color 透镜颜色	
Material 材料	Emitting Color 发光颜色		Water Clear 无色透明	
GaN	Blue			

■ Absolute Maximum Rating (最大数值)

Item 项目	Symbol 符号	Value 数值	Unit 单位
Forward Current 正向电压	IF	20	mA
Peak Forward Current* 峰值正向电流	IFP	100	mA
Reverse Voltage 反向电压	VR	5	V
Power Dissipation 功耗	PD	80	mW
Electrostatic discharge (HBM) 抗静电能力	ESD	1000	V
Operation Temperature 操作温度	Topr	-30~+80	°C
Storage Temperature 储存温度	Tstg	-30~+80	°C
Lead Soldering Temperature* 引脚焊接温度	Tsol	Max. 260°C for 5sec Max.	

*IFP Conditions: Pulse Width ≤ 10msec (IFP 正向峰值电流使用条件: 脉冲宽度 ≤ 10 毫秒)

*Tsol Conditions: 3mm from the base of the epoxy bulb

(Tsol 焊接条件: 焊接位置离胶体底部 3 毫米)

■ Typical Optical/ Electrical Characteristics Ta=25°C (光电参数 环境温度 25°C)

Item (项目)	Symbol 符号	Condition 条件	Rank 档次	Min. 最小值	Typ. 典型值	Max. 最大值	Unit 单位
Luminous Intensity 光强	Iv	IF=20mA	S	1015		1320	mcd
			T	1320		1715	mcd
			U	1715		2230	mcd
Forward Voltage 正向电压	VF			2.8	3.2	3.6	V
Viewing Angle 角度	2θ 1/2			--	40	--	deg
Dominant Wavelength 主波长	λD			470	--	480	nm
Recommend Forward Current 推荐使用正向电流	IF(rec)	--		--	--	20	mA
Reverse Current 反向电流	IR	Vr=5V		--	--	10	uA

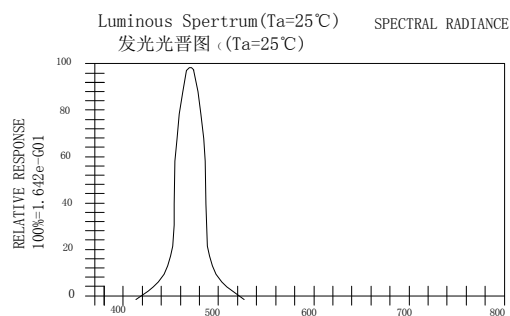
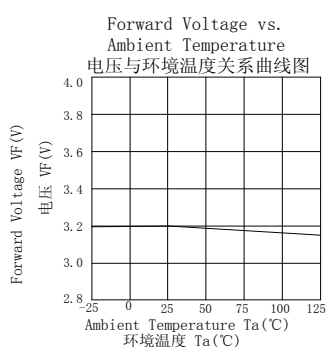
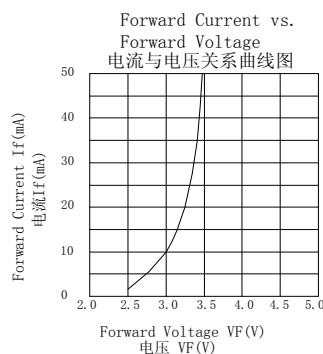
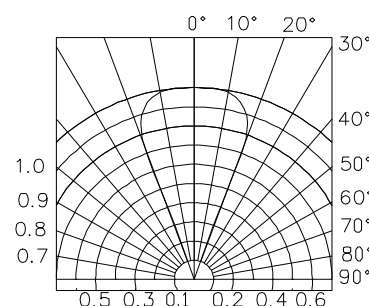
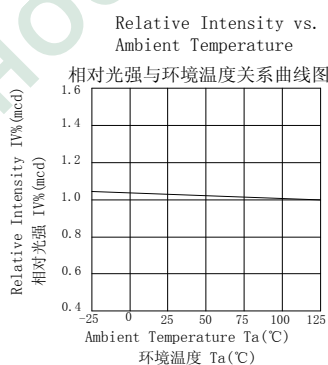
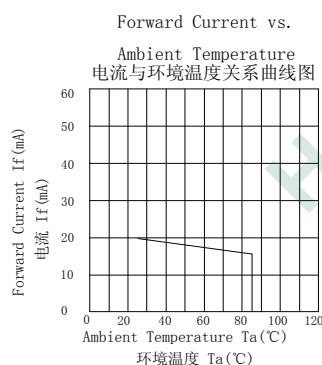
Notes (注释):

Tolerance : VF ± 0.1V, λD ± 2 nm, Iv(φ V) ± 15%, 2θ 1/2 ± 15%

公差: 正向电压 ± 0.1V, 主波长 ± 2 nm, 光强 (光通量) ± 15%, 角度 ± 15%

■ Reliability Performance 可靠性
Test Items And Result 测试项目和判定

Test Classification 测试类别	Test Item 测试项目	Test Conditions 测试条件	Test Duration 测试持续时间	Sample Size 样品数量	AC/RE 接受/拒收
Life Test 寿命测试	Room Temperature DC Operating Life Test 室温直流寿命测试	$T_a=25^{\circ}\text{C}\pm 5^{\circ}\text{C}$, $I_f=20\text{mA}$	1000 hrs	22 pcs	0/1
Environment Test 环境模拟实验	Thermal Shock Test 冷热冲击	$100^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 5min $\uparrow\downarrow$ $-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 5min.	100 cycles	22 pcs	0/1
	Temperature Cycle Test 高低温循环实验	$100^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 30min $\uparrow\downarrow$ 5min $-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 30min.	100 cycles	22 pcs	0/1
	High Temperature & High Humidity Test 高温高湿实验	$85^{\circ}\text{C}\pm 5^{\circ}\text{C}/85\% \text{ RH}$ $I_f=5\text{mA}$	1000 hrs	22 pcs	0/1
	High Temperature Storage 高温储存	$T_a=100^{\circ}\text{C}\pm 5^{\circ}\text{C}$	1000 hrs	22 pcs	0/1
	Low Temperature Storage 低温储存	$T_a=-40^{\circ}\text{C}\pm 5^{\circ}\text{C}$	1000 hrs	22 pcs	0/1
Mechanica Test 机械测试	Resistance to Soldering Heat 耐焊接实验	Temp= 260°C max T=5sec max	1times	22 pcs	0/1
	Lead Integrity 引脚折弯实验	Load 2.5N(0.25kgf) $0^{\circ} \sim 90^{\circ} \sim 0^{\circ}$	3times	22 pcs	0/1





Soldering (焊接) :

1. Manual Of Soldering (手工焊接)

The temperature of the iron tip should not be higher than 300°C and Soldering within 3 seconds per solder-land is to be observed. (烙铁最高温度不高于 300°C, 焊接时间小于 3 秒)

2. DIP soldering (Wave Soldering) 波峰焊接:

Preheating: 120°C~150°C, within 120~180 sec. (预热温度 120°C~150°C, 小于 120~180 秒)

Operation heating: 245°C ± 5°C within 5 sec. 260°C (Max)

操作温度: 245°C ± 5°C 小于 5 秒, 最高温度不高于 260°C

Gradual Cooling (Avoid quenching).

过完波峰焊后应缓慢冷却.

