



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Part No./型号: SS-190UYC-03N

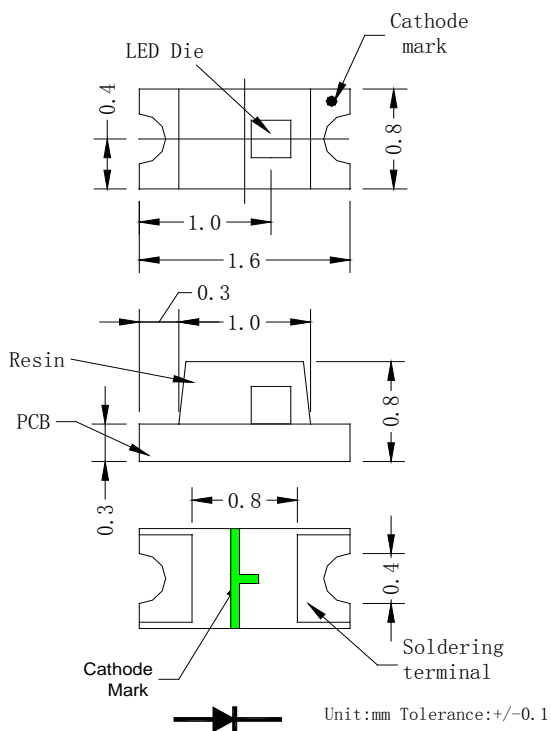
1、Features/特征:

- Emitting Color/发光颜色: Yellow
- Lens Type/封装特性: Water Clear
- Device Outline/外形特征: 1.6×0.8×0.8mm

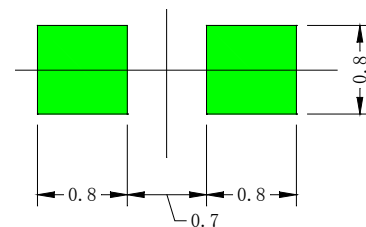
2、Applications/应用:

- Backlight for Mobile, Machine Vision, LCD Display/手机、电话、显示屏背光源
- Backlight in Dashboard and swith of Automive/汽车仪表盘、记程器背光源

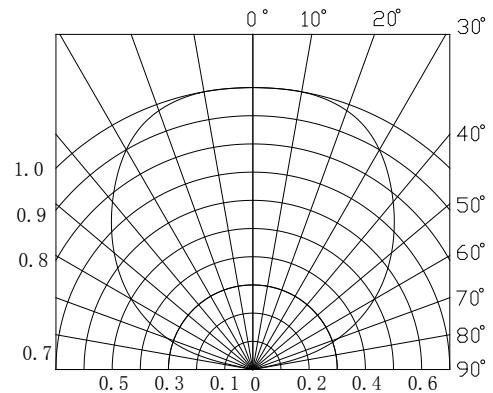
3、Outline Dimensions/产品外形尺寸:



被推荐的回焊焊盘尺寸:



SPATIAL DISTRIBUTION





4、 Absolute maximum ratings/极限参数 (Ta = 25℃)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 参数		Unit 单位
			Min.	Max.	
Power Dissipation 损耗功率	Pd	---	---	50	mW
Reverse Voltage 反向电压	VR	IR = 30 μA	5	---	V
Pulse Current 正向峰值电流	IFp	Duty=0.1, 1kHz	---	100	mA
Forward Current 正向工作电流	IFm	---	---	20	mA
Operating Temperature 工作温度范围	Topr	---	-20	+85	℃
Storage Temperature 储存温度范围	Tstr	---	-25	+85	℃

Special Conditions

- VF2 = Test condition = Vf ≥ 1.1V - 1.7V @ 1 μA
- IR = 0.1 μA at 5V

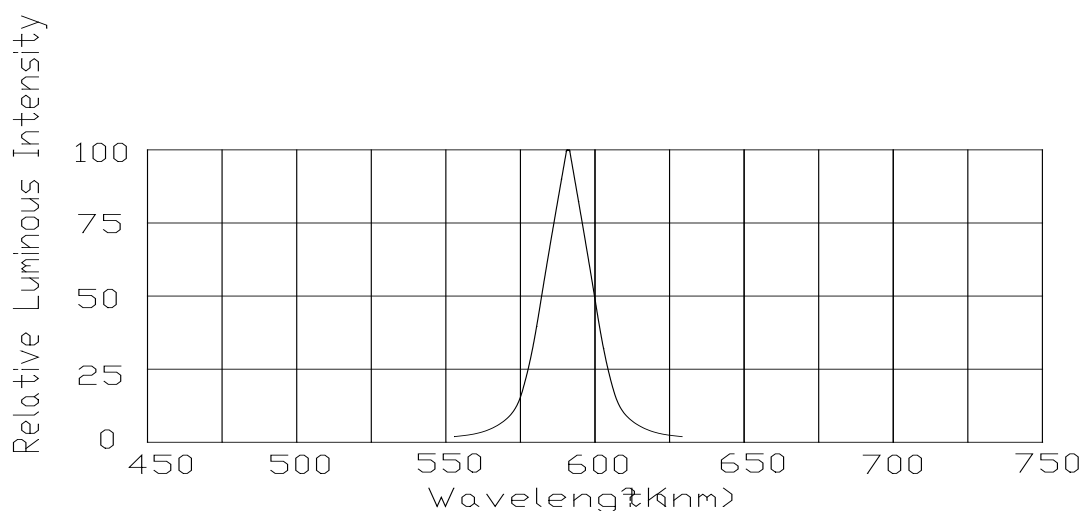
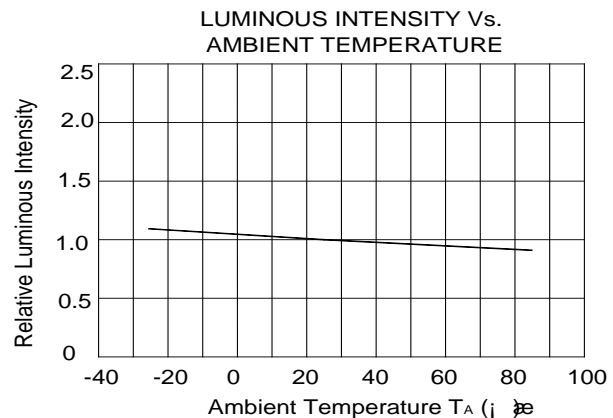
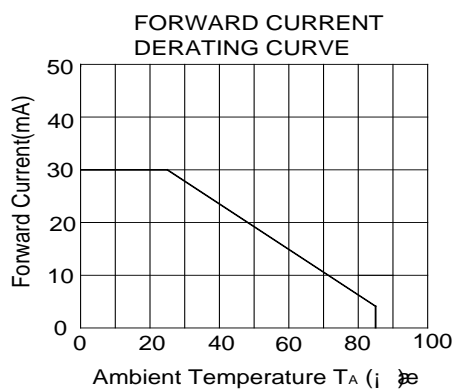
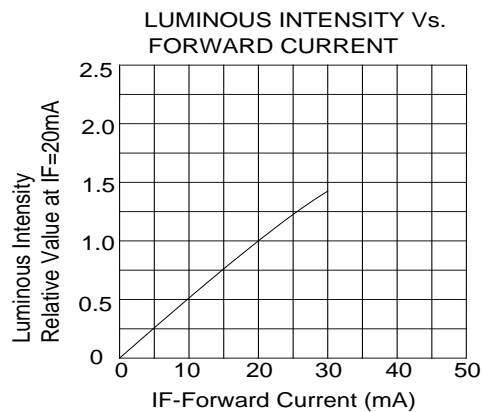
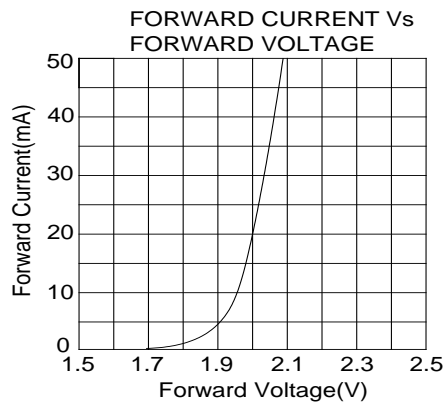
5、 Electrical and optical characteristics/光电参数 (Ta = 25℃)

Parameter 参数	Symbol 符号	Test Condition 测试条件	Value 参数			Unit 单位
			Min.	Typ.	Max.	
Forward Voltage 正向电压	VF	IF =20mA	---	2.0	2.5	V
Reverse Current 反向电流	IR	VR=5V	---	---	30	μA
Dominate Wavelength 主波长	λd	IF=5mA	585	588	591	nm
Peak Wavelength 峰值波长	λp	IF=5mA	---	591	---	nm
Spectral Line half-width 半波宽度	Δλ	IF=5mA	---	20	---	nm
Luminous Intensity 发光强度	IV	IF=5mA	30	---	45	mcd
Viewing Angle 发光指向角	2θ 1/2	IF=20mA	---	120	---	Deg.



7、Typical electrical/optical characteristic curves/

光电特性曲线:





8、Intensity And Color Bin Limits / 亮度和波长等级

(1) Intensity Bin Limits (IF=5mA)

SELECTION CODE FOR SUPER BRIGHT LEADS		
Group	Light intensity in mcd(5MA) Super Bright Yellow	
	MIN.	MAX.
D	15	20
E	20	25
F	25	30
G	30	35
H	35	40
I	40	45

Tolerance for each Bin limit is $\pm 10\%$.

(2) Color Bin Limits (IF=5mA)

Group	Dom. WaveLength (nm)	
	MIN.	MAX.
3	585	586
4	586	587
5	587	588
6	588	589
7	589	590
8	590	591

Tolerance for each Bin limit is $\pm 1\text{nm}$.

Forward Voltage Bin Limits (IF=5mA)

Grade	B	C	D
Range	1.8-1.9V	1.9-2.0V	2.0-2.1V

Tolerance for each Bin limit is $\pm 0.1\text{v}$.