

COB Package

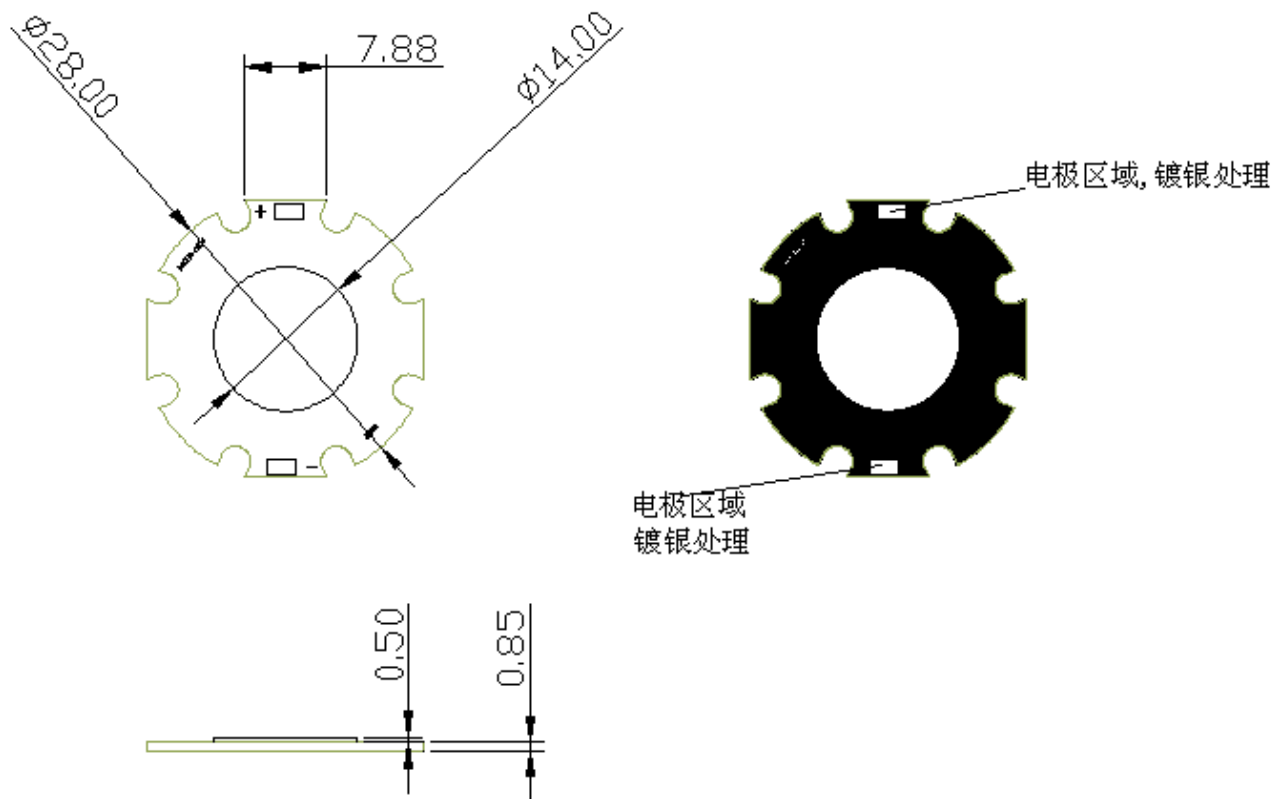
Features (特性参数)

- ☐ COB package. (COB 封装方式)
- ☐ Wide viewing angle. (发光角度大)
- ☐ Compatible with infrared and vapor phase reflow solder process. (适用于回流焊制程)
- ☐ Package: pcs/Tray (包装: 36 颗/盘)
- ☐ Pb-free. (无铅)

Applications (应用)

- ☐ 室外照明 (indoor lighting)
- ☐ 室内照明 (outdoor lighting)

Package Dimensions (产品尺寸)



Note: All dimensions is $\pm 0.1\text{mm}$ unless otherwise noted, Unit = mm

说明: 未特别标注的情况下所有尺寸公差为 ± 0.1 毫米。

Selection Guide (产品向导)

Part No. (产品型号)	Chip (晶片材质)	Emitted Color (发光颜色)	Φ (lm)@60mA		Viewing angle (发光角度)
			Min	Max	
DSCOB-2814-5W	GaN	White	400	500	130

Electro-Optical Characteristics (Ta=25℃) (光电参数)

Symbol (项目)	Parameter (参数)	Min. (最小值)	Typ. (平均值)	Max. (最大值)	Unit (单位)	Condition 测试条件
V_F	Forward Voltage 正向电压	72.5	-----	82.5	V	$I_F=60mA$
Ra	Color Rendering Index 显色指数	70	-----	-----		
Φ	Luminous Flux 光通量	-----	450	-----	Lm	
CCT	Correlated Color Temperature 色温	-----	6500	-----	K	
η	Luminous efficiency 光效	-----	100	-----	lm/W	
2 θ 1/2	Viewing angle (发光角度)	-----	130	-----	deg	

Absolute Maximum Ratings (Ta=25℃) (各项参数最大值)

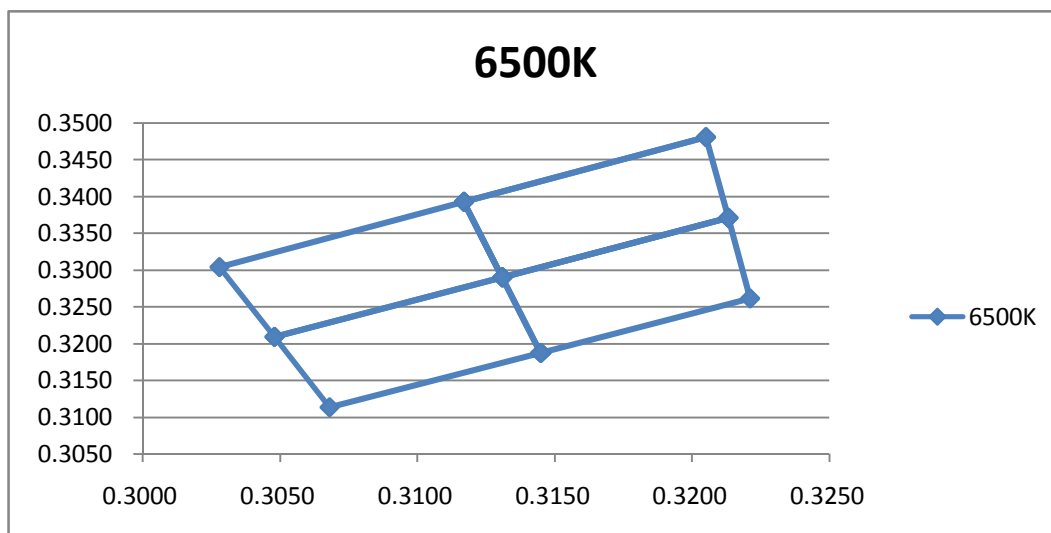
Symbol 符号	Parameter 参数	Value 数值	Unit 单位
P _d	Power Dissipation 功率	5	W
I _{Pulse}	Peak Pulse Current 脉冲驱动电流	60	mA
T _j	Junction Temperature 结温	125	℃
ESD	Electrostatic Discharge(HBM) 静电放电能力 (人体模式)	4000	V
T _{opr}	Operating Temperature 可操作温度	-40~ +85	℃
T _{Stg}	Storage Temperature 储存温度	-40~ +110	℃
T _{Sol}	Soldering Temperature 回流焊温度	260	℃

Chromaticity Coordinates Specifications (色度分档)

Bin	CIE_X	CIE_Y
65K-1	0.3205	0.3481
	0.3117	0.3393
	0.3213	0.3371
	0.3205	0.3481
65K-2	0.3117	0.3393
	0.3028	0.3304
	0.3048	0.3209
	0.3131	0.3290
	0.3117	0.3393
65K-3	0.3131	0.3290
	0.3048	0.3209
	0.3068	0.3113
	0.3145	0.3187
	0.3131	0.3290
65K-4	0.3213	0.3371
	0.3131	0.3290
	0.3145	0.3187
	0.3221	0.3261
	0.3213	0.3371

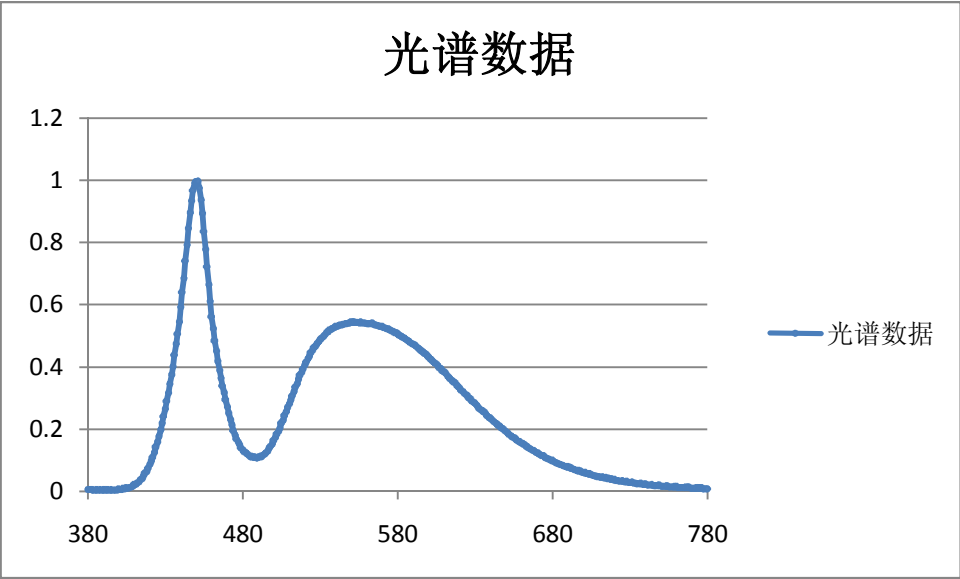
Notes: The C.I.E. 1931 chromaticity diagram (Tolerance ± 0.005)

说明：色度公差为 ± 0.005 。

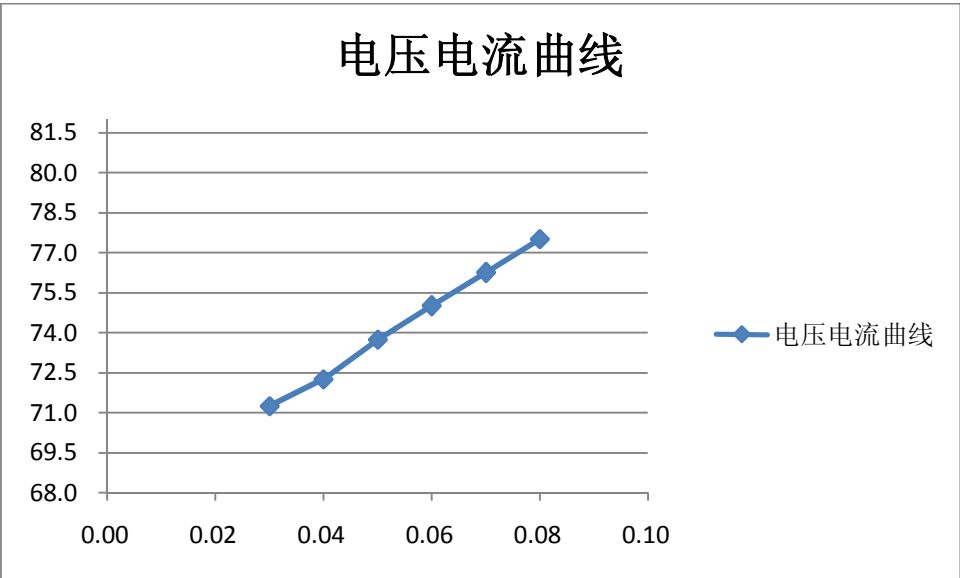


Electro-Optical Characteristics Curves（光电特性曲线图）

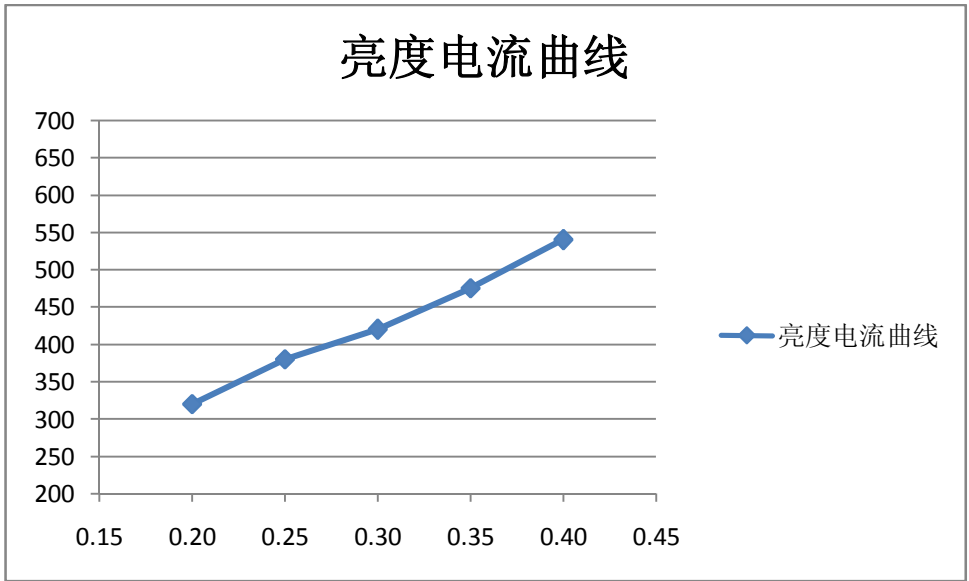
Spectrum Distribution（光谱图）



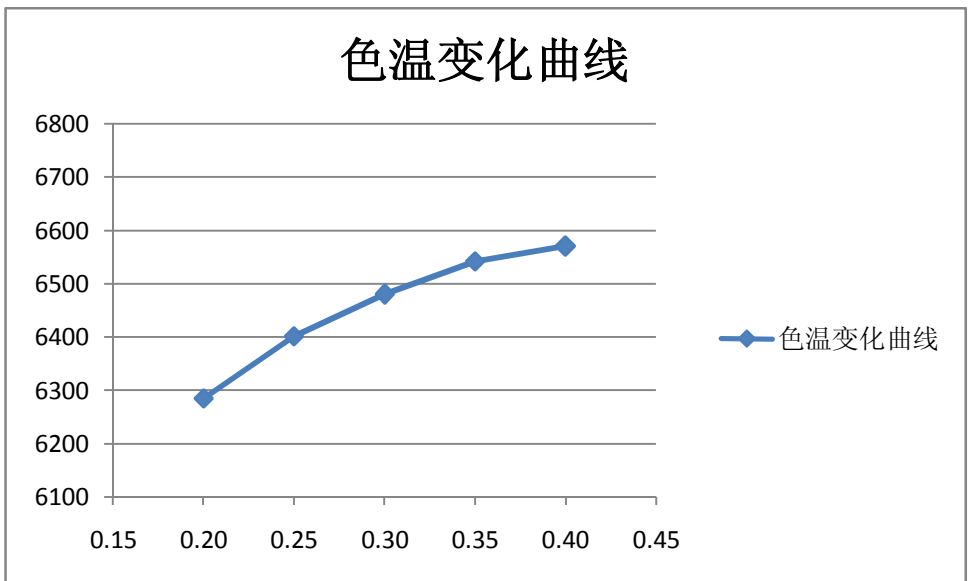
Forward Voltage vs. Forward Current（电压随电流变化曲线图）



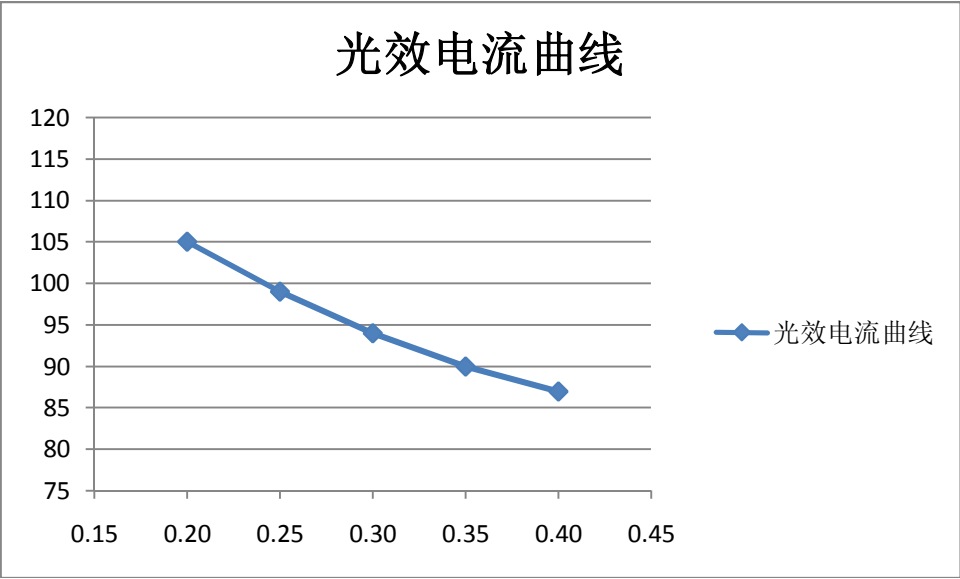
Relative Luminous Flux vs. Forward Current（光通量随电流变化曲线图）



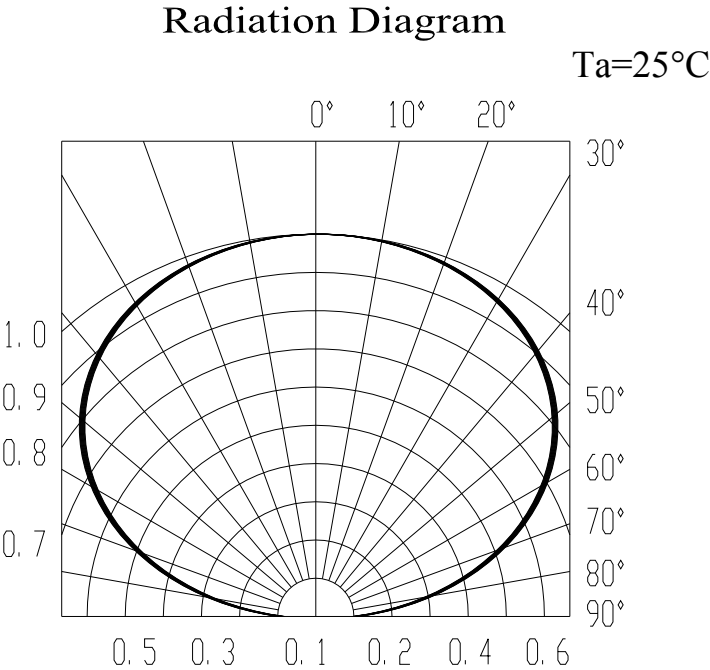
Correlated Color Temperature vs. Forward Current（色温随电流变化曲线图）



Luminous efficiency vs. Forward Current（光效随电流变化曲线图）



Radiation Diagram



Carrier Tape Dimensions: Loaded Quantity pcs Per Reel

料盘尺寸：可承载 36 颗每盘。

Note:

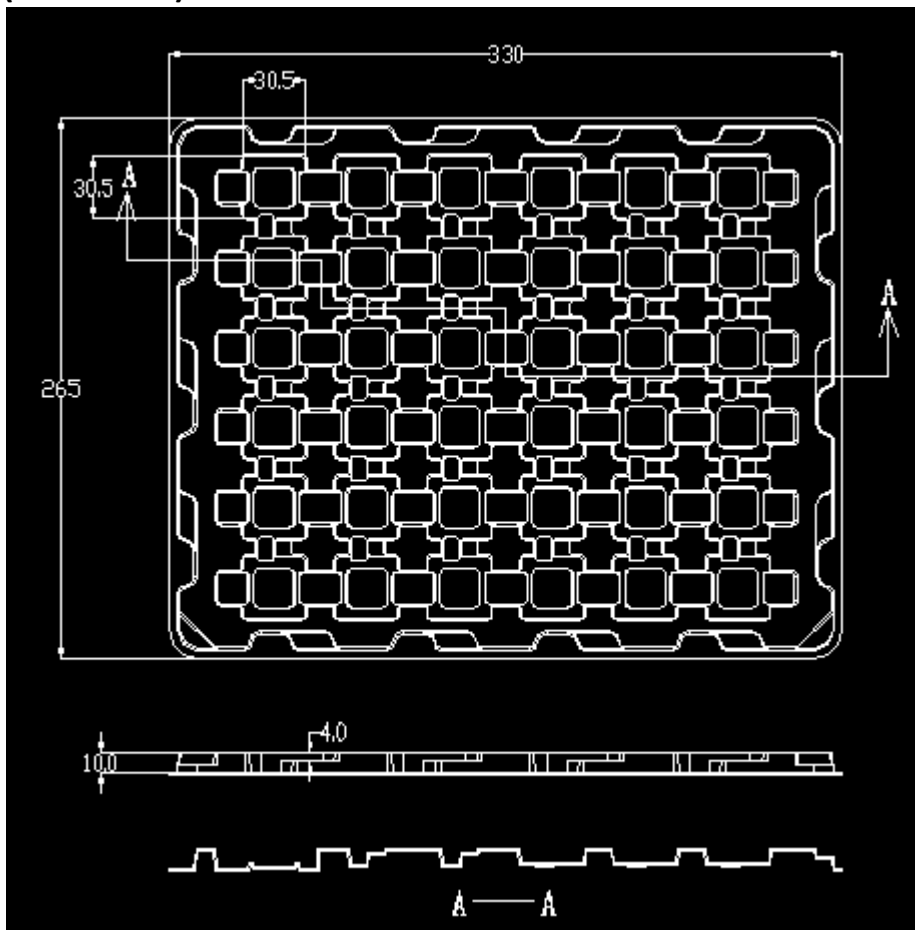
1. Dimensions are in millimeters.
2. Tolerances unless mentioned are $\pm 0.1\text{mm}$

说明:

1. 所有尺寸以毫米为单位;
2. 除特别标识外所有尺寸公差为 ± 0.1 毫米。

Tray Dimensions (托盘尺寸)

(Units: mm) (单位: 毫米)



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$, Unit = mm

说明：除特别标识外所有尺寸公差为 ± 0.1 毫米