



# Specification for JT LED Module

## JT LED 模组规格书

Model: 06 Series 3528 SMD Modules  
型号: 06系列3528贴片模组

Document No: TECH-JT-SLS06XX-E  
文件号:  
Model No: 06 Series Waterproof Module  
模组型号:  
Version No: 03  
版本号:  
Date / 日期: 2010-07-26

Confirmed by Customer: \_\_\_\_\_  
客户确认:  
Date / 日期: \_\_\_\_\_

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## 06 Series 3528SMD Modules 06系列3528贴片模组



### Introduction / 介绍:

06 series LED modules are single colour (white) light source. SMD technology based JT LED modules are much brighter with better heat dissipation than standard modules. Depending on modification SMD module can be rated at 0.3W or 0.6W power with aluminium housing.

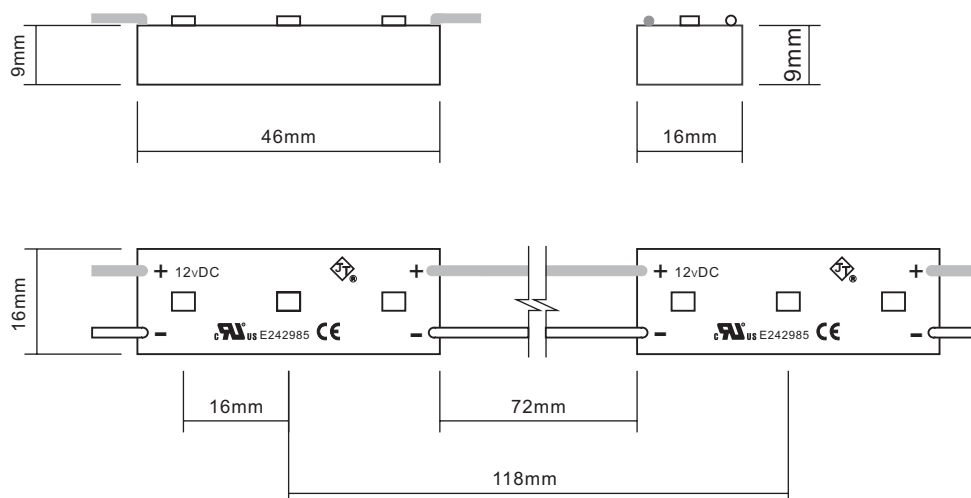
06 系列LED 模组是单色(白色)光源。根据JT LED模组的贴片技术制造, 这类模组较一般标准模组具有更好的散热效果, 因此亮度也更好。此外, 根据调整贴片, 功率可以是0.3瓦或0.6瓦, 它还使用了铝制散热壳。



### Features / 特点:

- Long lifetime, more than 50,000 hours / 寿命长, 超过50,000小时
- Good heat dissipation to ensure better lumen maintenance / 良好的散热结构保证更好的流明保有度
- High luminous flux output / 高亮输出
- 70% lumen maintenance at 50,000 hours (L70) / 50,000小时衰减低于30%
- Waterproof design, IP65 ratings / 防水设计, IP等级65
- Wide 120 degree viewing angle / 120° 较宽发光角度
- Shock and vibration resistant / 防震抗摔
- Environmentally friendly, RoHS compliant
- Energy efficient  
节能环保, 通过ROHS认证

### Dimensions / 尺寸:



### Rules of Naming Products / 产品分类:

Code 代号	Color 颜色	Operating Voltage 输入电压	Rated Current 额定电流	Rated Power 额定功率	Dimension 尺寸	Beam Angle 发光 角度	Luminous Flux 亮度	Wave Length 波长	Working Temp. 工作温度	IP Rank 防水 等级
JT-SLS061R-0.3	Red	12V DC	20mA	0.24W	46×16×9mm	120°	1400mcd×3	625-640nm	-50~+80°C	IP 65
JT-SLS062A-0.3	Yellow	12V DC	20mA	0.24W	46×16×9mm	120°	900mcd×3	585-590nm	-50~+80°C	IP 65
JT-SLS063B-0.3	Blue	12V DC	20mA	0.24W	46×16×9mm	120°	700mcd×3	460-475nm	-50~+80°C	IP 65
JT-SLS064G-0.3	Green	12V DC	20mA	0.24W	46×16×9mm	120°	700mcd×3	505-530nm	-50~+80°C	IP 65
JT-SLS065W-0.3	White	12V DC	28mA	0.3W	46×16×9mm	120°	3000mcd×3	—	-50~+80°C	IP 65
JT-SLS065WW-0.3	Warm White	12V DC	28mA	0.3W	46×16×9mm	120°	2500mcd×3	—	-50~+80°C	IP 65

## Electro-optical characteristics / 光电参数

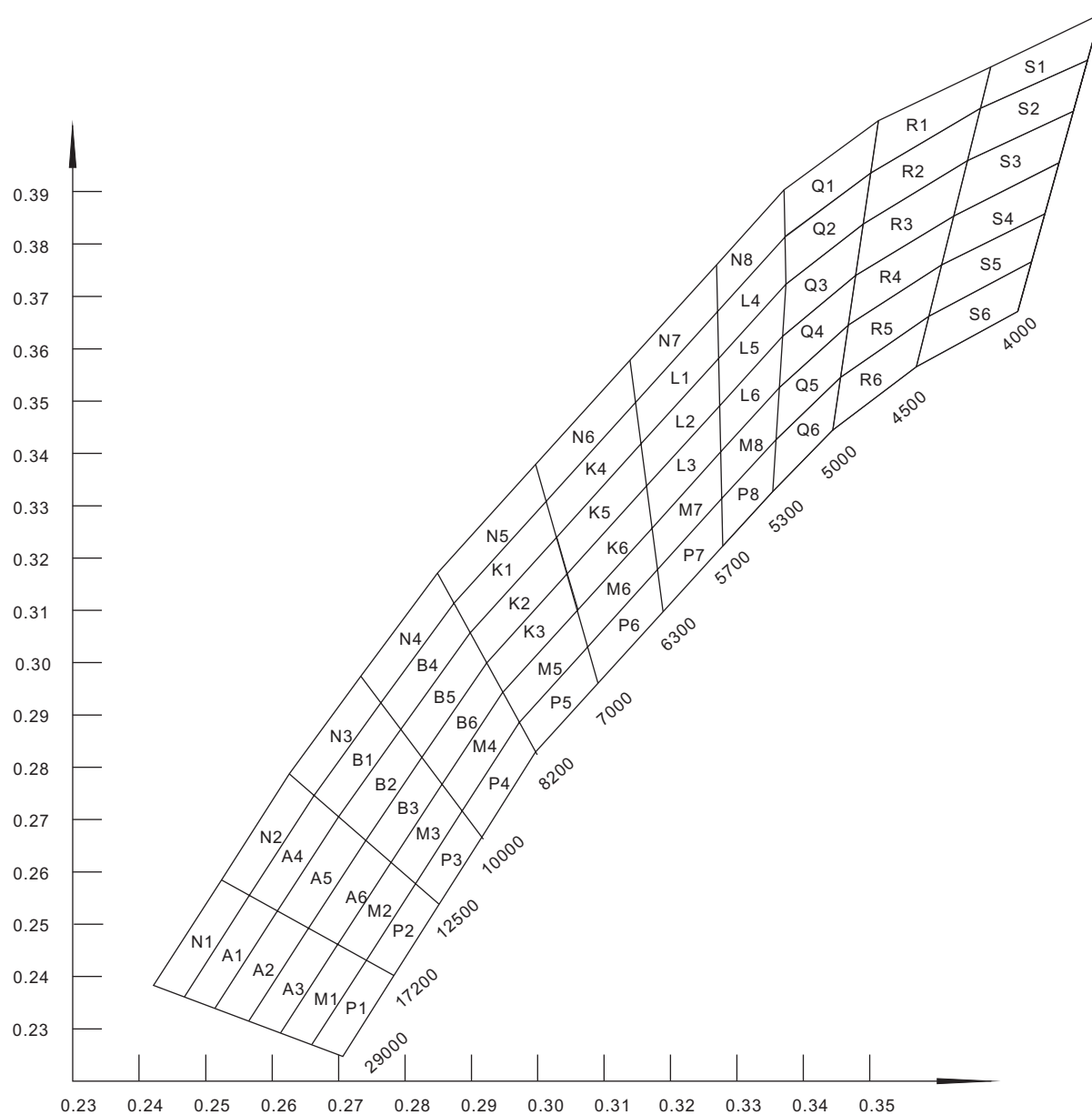
## 1. Absolute maximum ratings at Ta=25°C / 在25°C时,最大参数值

Parameter / 参数	Symbol / 符号	Value / 数值	Unit / 单位
Power dissipation / 消耗功率	Pd	150	mW
Forward current / 正向电流	If	40	mA
Reverse voltage / 反向电压	Vr	5	V
Operating temperature range / 工作温度范围	Top	-40 ~ +100	°C
Storage temperature range / 储存温度范围	Tstg	-40 ~ +100	°C
Pulse Forward Current / 正向脉冲电流	Ifp	100	mA
Electrostatic Discharge / 抗静电能力	ESD	1000(HBM)	V

## 2. Electro-optical characteristics at Ta=25°C / 在25°C时,光电参数值

Parameter / 参数	Test Condition 测试条件	Symbol 符号	Value / 数值			Unit 单位
			Min. / 最小	Typ. / 典型	Max. / 最大	
Forward voltage / 正向电压	If=30mA	Vf	3.0	--	3.7	V
Luminous intensity / 发光强度	If=30mA	Iv	2100	2500	3000	mcd
Viewing angle at 50% Iv / 半强角	If=30mA	2 θ 1/2	--	120	--	Deg
Reverse current / 反向电流	Vr=5V	Ir	--	--	10	μA
Chromaticity CIE / 色区E	If=30 mA	A	(0.2613, 0.2292) (0.2468, 0.2361) (0.2663, 0.2746) (0.2779, 0.2618)			
		B	(0.2779, 0.2618) (0.2663, 0.2746) (0.2874, 0.3114) (0.2947, 0.2942)			
		K	(0.2947, 0.2942) (0.2874, 0.3114) (0.3148, 0.3498) (0.3173, 0.3258)			
		L	(0.3173, 0.3258) (0.3148, 0.3498) (0.3331, 0.3756) (0.3352, 0.3509)			

## CIE Chromaticity Diagram / 色区图表:



## NOTE / 注释:

Tolerance:  $I_v \pm 10\%$ ,  $\lambda_d \pm 2\text{nm}$ ,  $V_f \pm 0.05\text{V}$ ,  $X, Y \pm 0.01$

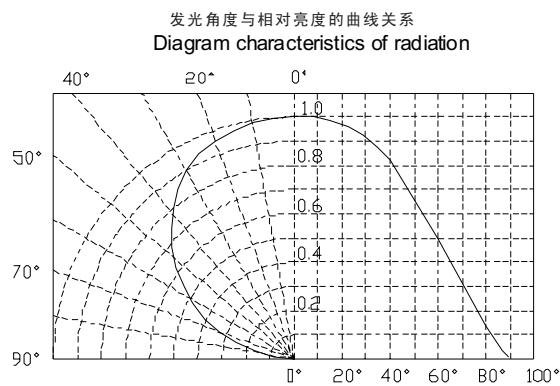
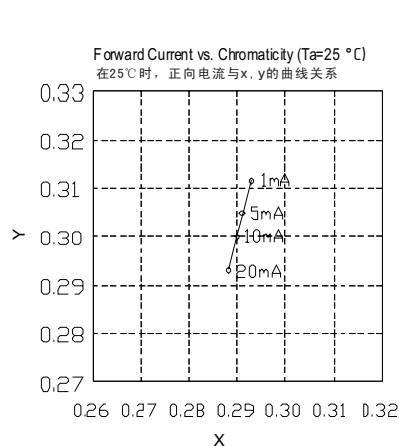
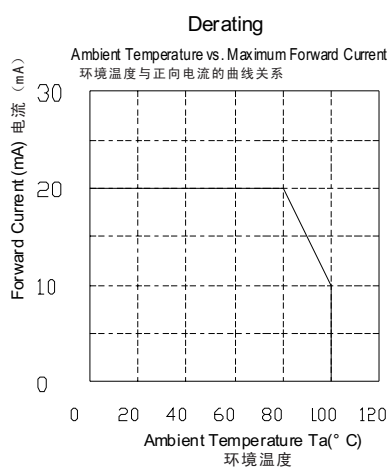
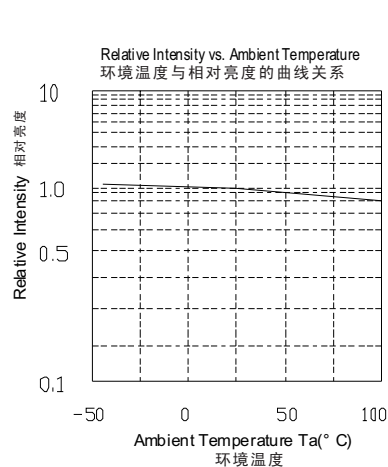
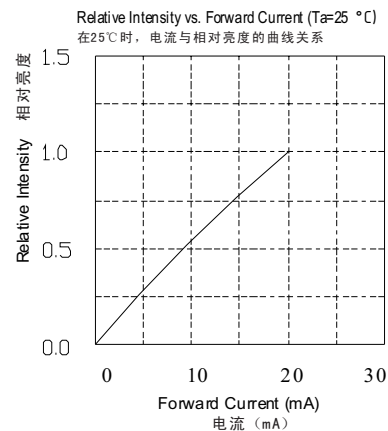
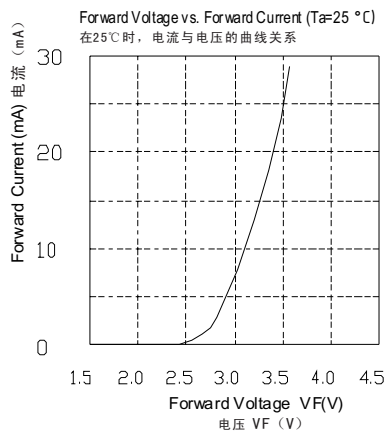
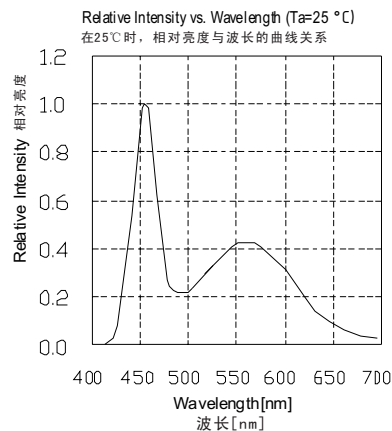
公差: 光强  $\pm 10\%$ , 主波长  $\pm 2\text{nm}$ , 正向电压  $\pm 0.05\text{V}$ , 色坐标  $\pm 0.01$

IFP Conditions: Pulse Width  $\leq 10\text{msec}$  and Duty  $\leq 1/10$ .

最大脉冲电流条件: 脉冲宽度  $\leq 10\text{msec}$  和 占空比  $\leq 1/10$

## Typical optical characteristics curves / 典型光特性曲线:

### Spectral Distribution / 光谱曲线:



**Reliability / 可靠性:****1.TEST ITEMS AND RESULTS / 测试项目及判定**

Type 类型	Test Item 测试项目	Ref.Standard 参考标准	Test Conditions 测试条件	Note 注释	Number of Damaged 死灯数量
Environmental Sequence 环境顺序	Resistance to Soldering Heat (reflow Soldering) 回流焊耐热测试	JESD22-B106	Tsld=260°C.10sec	2 times	0/22
	Temperature Cycle 温度循环	JESD22-A104	-40°C 30min ↑↓5min 100°C 30min	1000 cycle	0/100
	Thermal Shock 冷热冲击	JESD22-A106	-40°C 15min ↑↓ 100°C 15min	1000 cycle	0/100
	High Temperature Storage 高温储存	JESD22-A103	Ta=100°C	1000 hrs	0/100
	Low Temperature Storage 低温储存	JESD22-A119	Ta=40°C	1000 hrs	0/100
	Power Temperature Cycling 间断点亮测试	JESD22-A105	On 5min -40°C>15min ↑↓ ↑↓<15min Off 5min 100°C>15min	100 cycle	0/100
Operation Sequence 操作顺序	Life Test 老化寿命测试	JESD22-A108	Ta=25°C If=40mA	1000 hrs	0/100
	High Humidity Heat Life Test 高温高湿老化测试	JESD22-A101	60°C RH=90% If=30mA	1000 hrs	0/100

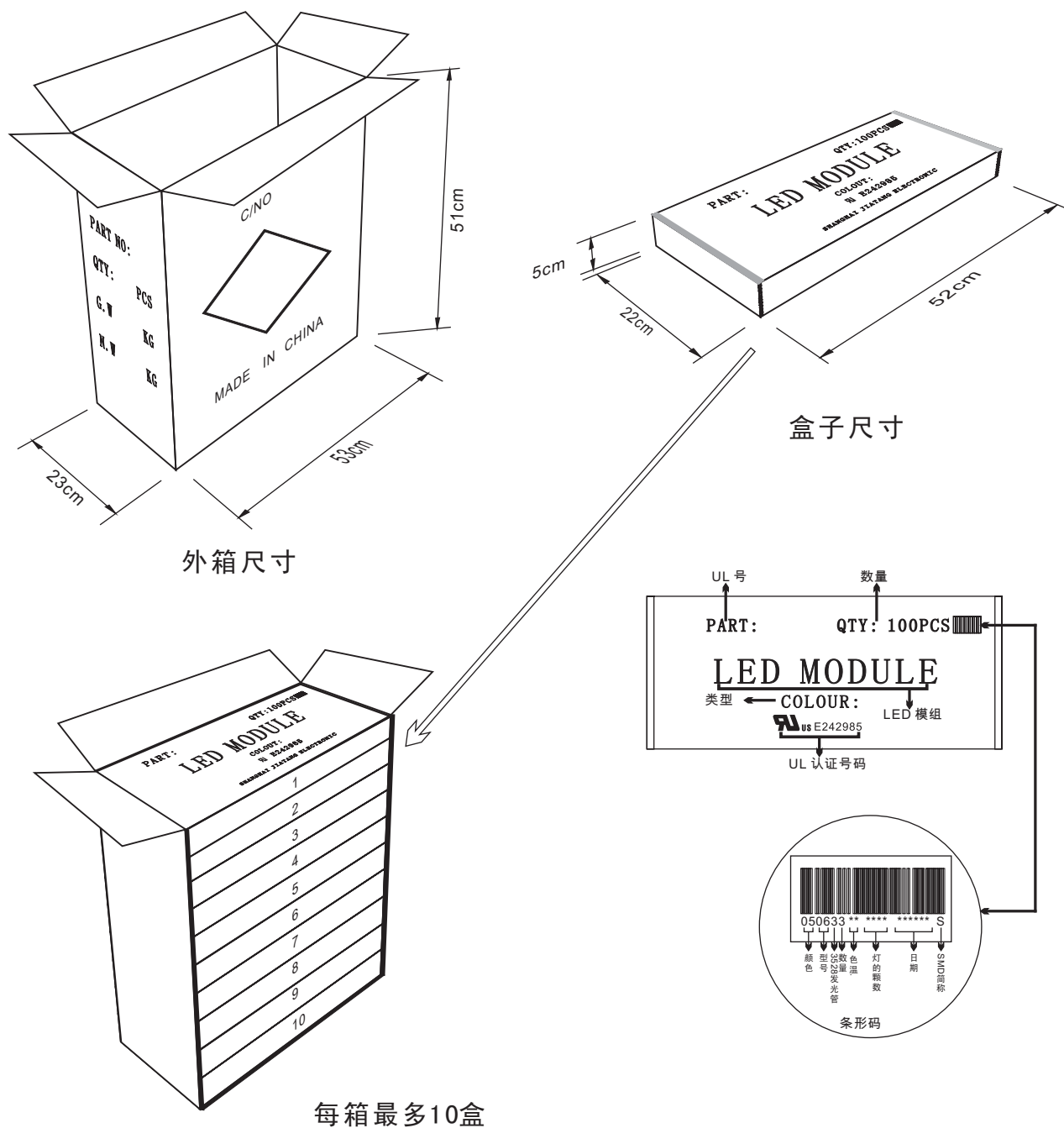
**1.CRITERIA FOR JUDGING THE DAMAGE / 失效判断标准**

Item / 项目	Symbol / 符号	Test Conditions 测试条件	Criteria for Judgement / 判断标准	
			Min. / 最小	Max. / 最大
Forward Voltage 正向电压	VF	IF=15mA	—	U.S.L*)×1.1
Reverse Current 反向漏电流	IR	VR=5V	—	U.S.L*)×2.0
Luminous Intensity 亮度	IV	IF=15mA	L.S.L*)×0.7	—

**U.S.L.:Upper Standard Level**  
标准上限

**L.S.L.:Lower Standard Level**  
标准下限

## Packing List / 包装规格:



1. Carton Size: 530mm×230mm×510mm  
箱子尺寸: 530mm×230mm×510mm
2. Ten boxed included in one carton (Quantity: 1000 pcs/carton)  
每箱里有10盒 (数量: 1000 组/箱)
3. Each box contains 100pcs, size 520mm×220mm×50mm  
每盒装100组, 尺寸: 520mm×220mm×50mm
4. Product name and bar code are on both the box and the side of the carton  
产品名称以及条形码贴于盒上以及箱体侧面
5. Gross Weight: 8KG  
毛重: 8KG