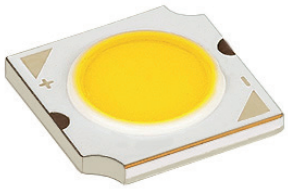
СВЕТОДИОДЫ МОЩНЫЕ
ARPL-5W-GES



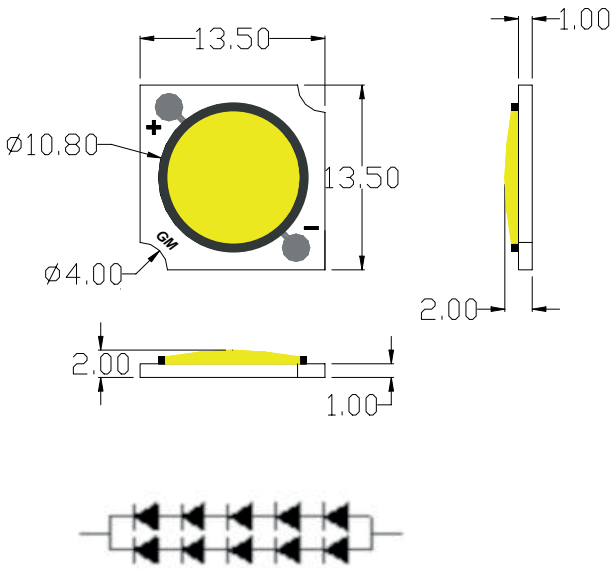
ОСОБЕННОСТИ
Features

- More energy efficient than incandescent and most halogen lamps.
- Low voltage operation.
- Instant light.
- Long operating life.
- Anti UV.

ПРИМЕНЕНИЕ
Applications

- Indoor lighting, spot light, ceiling light bulb.
- Architectural and landscape, lighting down light, wall lamp, garden light.
- Display lighting.

КОНСТРУКТИВНЫЙ ЧЕРТЕЖ
Package Dimensions



Notes: All dimensions in mm tolerance is ±0.1mm unless otherwise noted.

ПАРАМЕТРЫ
Technical specifications

Артикул Part number	018461
Модель Model	ARPL-5W-GES-1313-PW (320mA)
Цвет свечения Color	Белый

Absolute Maximum Ratings

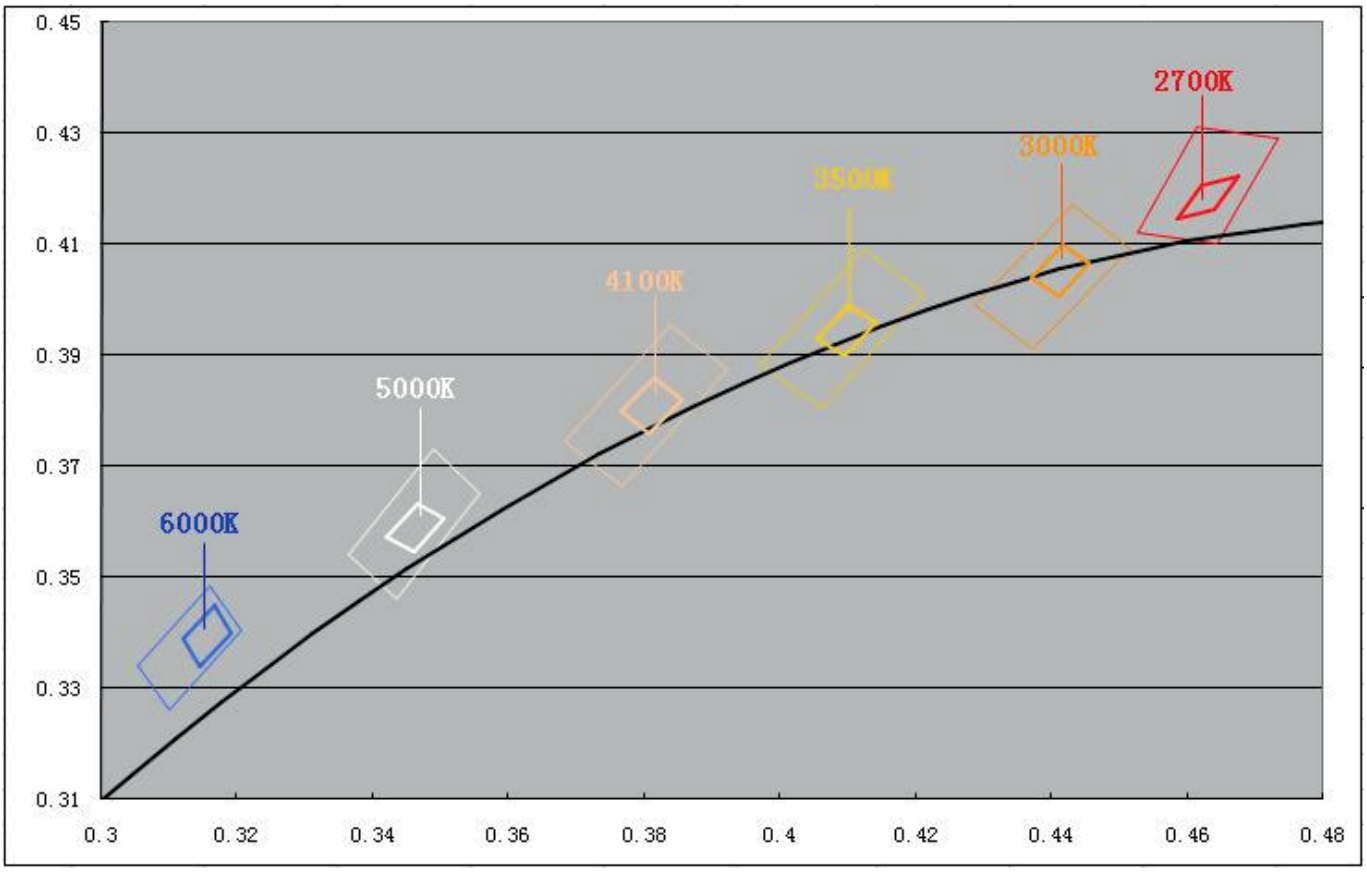
Parameter	Symbol	Rating	Unit
DC Forward Current	I_F	400	mA
Peak pulse Current*	I_{FP}	600	mA
Reverse Voltage	V_R	25	V
Power Dissipation	P_D	7	W
Operating Temperature Range	T_{OPR}	-30~+75	°C
Storage Temperature Range	T_{STG}	-40~+85	°C
LED Junction Temperature	T_J	125	°C

Notes 1. 1/10 Duty Cycle 0.1ms Pulse Width.

Electrical / Optical Characteristics-White (At TA=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Forward Voltage	V_F	I_F=320mA	15.00	-	17.00	V
Thermal Resistance Junction To Board	$R\theta_{J-B}$	I_F=320mA	-	2	-	°C/W
Luminous Flux	Φ_V	I_F=320mA	450	-	550	Lm
Color Temperature	CCT	I_F=320mA	6000	-	6500	K
CRI	Ra	I_F=320mA	70	-	75	-
Temperature Coefficient of Forward Voltage	$\Delta V_F/\Delta T$	I_F=320mA	-	-2	-	mV/°C
Reverse Current	I_R	V_R=25V	-	-	10	μA
Viewing Angle [1]	$2\theta_{1/2}$	I_F=320mA	-	120	-	Deg

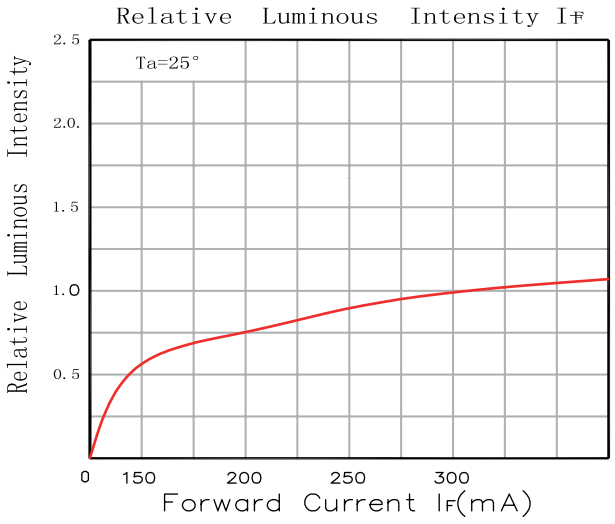
ЦВЕТОВАЯ ТЕМПЕРАТУРА
Color & binning

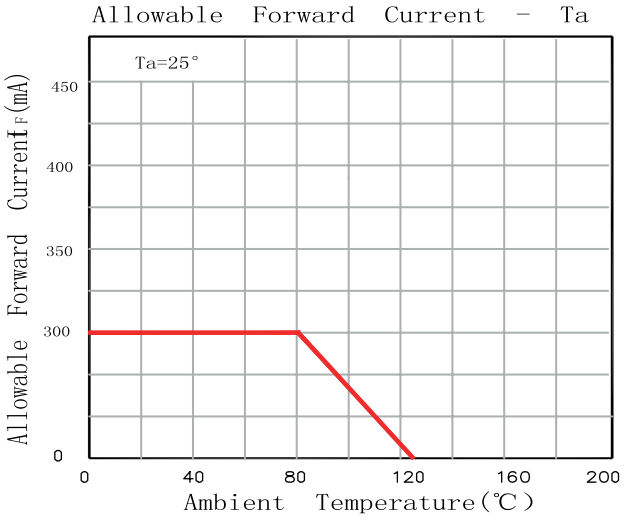


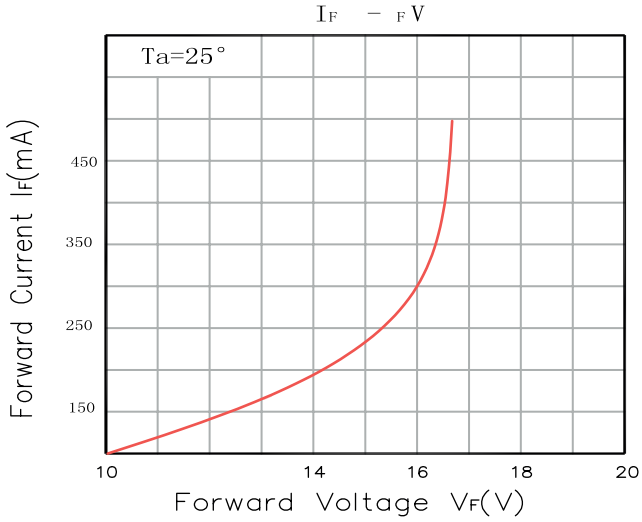
2700	0.4614	0.431	3000	0.4432	0.4171	3500	0.4122	0.409
	0.4732	0.429		0.4516	0.4091		0.421	0.401
	0.4643	0.41		0.4372	0.391		0.406	0.3805
	0.4525	0.412		0.4288	0.399		0.3972	0.3885
4100	0.3837	0.3954	5000	0.3488	0.3732	6500	0.316	0.3485
	0.3921	0.3874		0.3558	0.3652		0.3205	0.3405
	0.3766	0.3665		0.3434	0.3462		0.3099	0.326
	0.3682	0.3745		0.3364	0.3542		0.3054	0.334

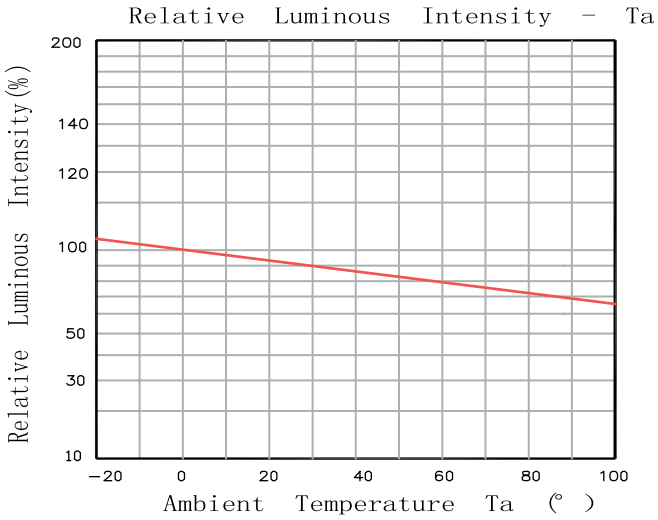
ФОТОМЕТРИЯ

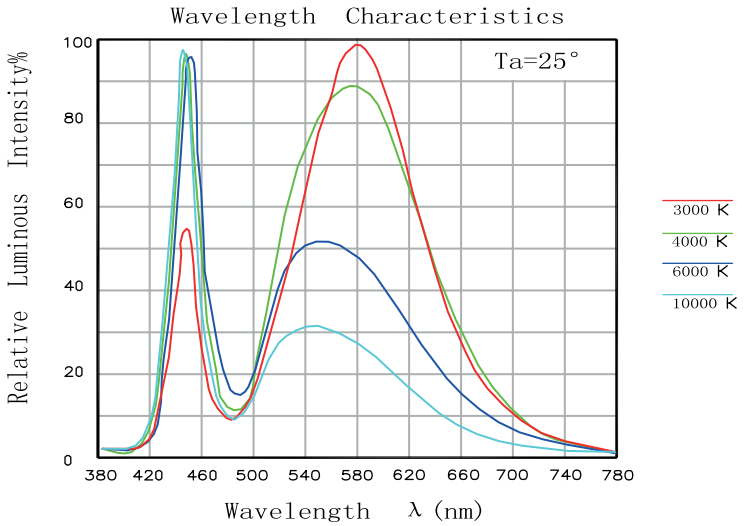
Typical Optical/Electrical Characteristics Curves

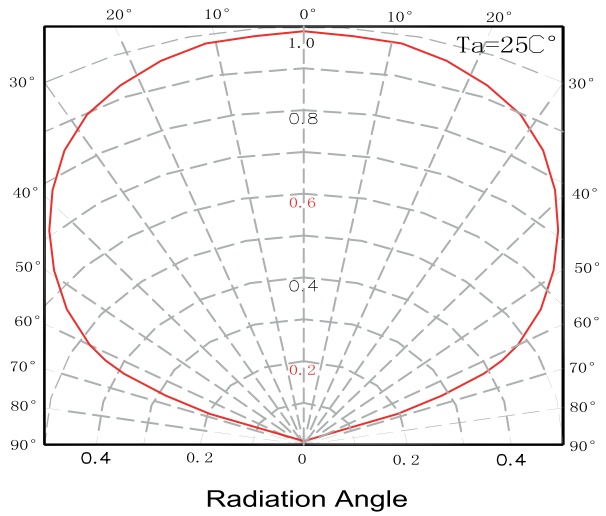












ТЕСТ НА НАДЕЖНОСТЬ
Reliability test standards

Test Item	REF. Standard	Test condition	Duration	Sample count	Accept
Temperature Cycle	JESD22-A104-A	-40°C~25°C~100°C~25°C 30min, 5min, 30min, 5min	100 cycles	22	0/22
Thermal shock	JESD22-A106	-40°C ~100°C 30min, 30min	100 cycles	22	0/22
High Temperature Storage	JEITA ED-4701 200 201	TA=100°C±5°C	1000 Hrs	22	0/22
Low Temperature Storage	JEITA ED-4701 200 202	TA=-40°C±5°C	1000 Hrs	22	0/22
Humidity Heat Storage	JIS C 7021 (1977)B-11	Ta=60°C RH=85%	1000Hrs	22	0/22
Life test	JESD22-A108-A	Ta=25°C If=300mA	1000Hrs	22	0/22
High humidity Heat life test	JESD22-A101	Ta=60°C RH=85% If=300mA	1000Hrs	22	0/22
Resistance to soldering Heat	JESD22-A113	IR soldering 245°C/10sec	1 time	22	0/22

МЕРЫ ПРЕДОСТОРОЖНОСТИ
Precautions for use

1. Storage

- The best Storage environment, temperature: 5°C~30°C. Humidity: 40% -80%HR.
- LED store after six months to be re-spectral color separation, to prevent the LED optical properties change.

2. Production and application:

- Need wear gloves when contact with led to prevent oxidation.
- ESD protection to be good.
- Soldering: can use soldering iron, the best temperature is 300°C / 3sec.
- Must have a good heat sinking, the temperature of the heat sink must be below 65 degree.
- When use please remove protective blue film.