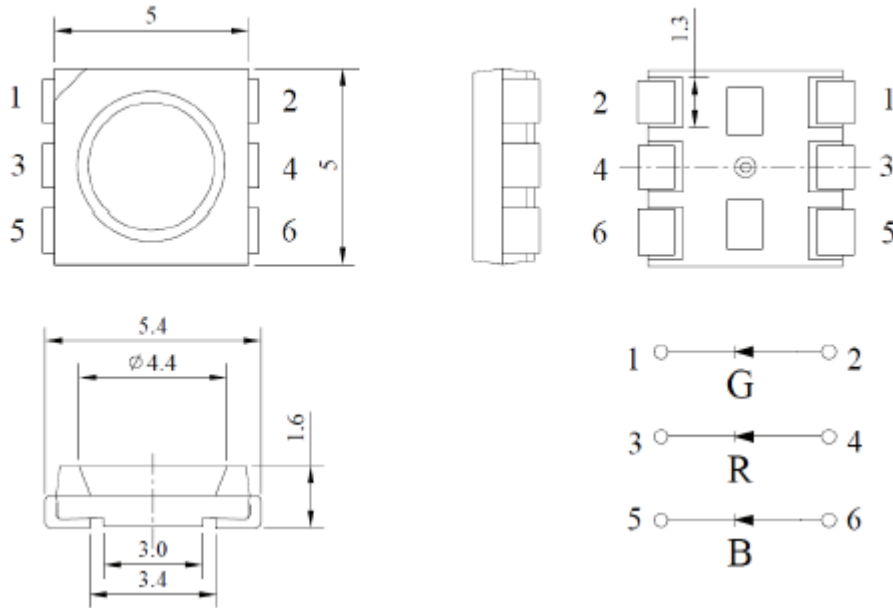


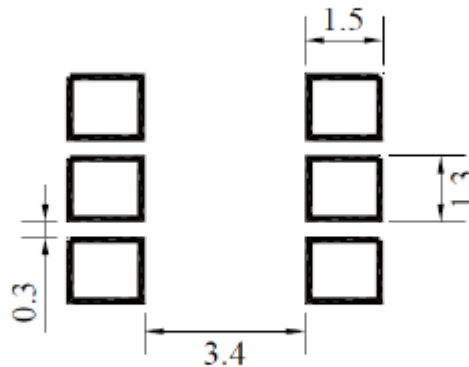
Tri Color 5050 Led Smd

Top view PLCC-6 Tri-color Chip SMD 5050 RGB LED

■ Package Dimensions:



■ Reflow Soldering Pad Dimensions:



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise specified.

Specification:

Quantity: 1000 pieces / reel

Size: 5.0 X 5.0 X 1.6(mm)

Emitting Color: RGB (Red Green Blue)

Luminous Intensity: R:400mcd G:1000mcd B:400mcd

Viewing Angle: 120 Degree

Forward Voltage / Current: R:2V-2.2V G:3V-3.2V B:3V-3.2V | 20mA (each color)

OEM / ODM

HIGH QUALITY LED LIGHT

WE FOCUS ON THE BEST LED LIGHTS



More energy saving



High brightness



Durable



High-quality materials

PRODUCT PRESENTATION

Technical Data Sheet for Tri Color 5050 Led Smd

Absolute Maximum Ratings at Ta=25°C:(R)

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	75	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	100	mA
Forward Current	I _F	30	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	Topr	-40°C to + 80°C	
Storage Temperature Range	Tstg	-40°C to + 100°C	
Lead Soldering Temper	Tsol	Preheating: 140°C~160°C±5°C, within 2 m	

ature [2.0mm from body]		inutes. Operation heating:260°C(Max) within 10 seconds.(Max)
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Electrical/Optical Characteristics at Ta=25°C: (R)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	I _F =20mA	200	400	--	mcd
Dominant Wavelength	λd	I _F =20mA	618	--	628	nm
Forward Voltage	V _F	I _F =20mA	1.8	2.2	2.6	V
Viewing Angle	2θ1/2	I _F =20mA	--	120	--	deg
Reverse Current	I _R	V _R =5V	--	--	10	uA

Notes:

1. Tolerance of Luminous Intensity ±15%
2. Tolerance of Forward Voltage ±0.1V

Absolute Maximum Ratings at Ta=25°C: (G)

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	110	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	120	mA
Forward Current	I _F	30	mA
Electrostatic Discharge (HBM)	ESD	2000	V
Reverse Voltage	V _R	5	V
Operating Temperature Range	Topr	-40°C to + 80°C	
Storage Temperature Range	Tstg	-40°C to + 100°C	
Lead Soldering Temperature [2.0mm from body]	Tsol	Preheating: 140°C~160°C±5°C, within 2 minutes. Operation heating:260°C(Max) within 10 seconds.(Max)	

		Gradual Cooling (Avoid quenching).
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Electrical/Optical Characteristics at Ta=25°C: (G)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	I _v	I _F =20mA	700	1000	--	mcd
Dominant Wavelength	λ _d	I _F =20mA	515	--	530	nm
Forward Voltage	V _F	I _F =20mA	2.8	3.2	3.6	V
Viewing Angle	2θ _{1/2}	I _F =20mA	--	120	--	deg
Reverse Current	I _R	V _R =5V	--	--	10	uA

Notes:

1. Tolerance of Luminous Intensity ±15%
2. Tolerance of Forward Voltage ±0.1V

Absolute Maximum Ratings at Ta=25°C: (B)

Parameter	Symbol	Maximum	Unit
Power Dissipation	P _d	110	mW
Peak Forward Current (Duty 1/10 @1KHz)	I _{FP}	120	mA
Forward Current	I _F	30	mA
Electrostatic Discharge (HBM)	ESD	2000	V
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{opr}	-40°C to + 80°C	
Storage Temperature Range	T _{stg}	-40°C to + 100°C	
Lead Soldering Temperature [2.0mm from body]	T _{sol}	Preheating: 140°C~160°C±5°C, within 2 minutes. Operation heating:260°C(Max) within 10 seconds.(Max) Gradual Cooling (Avoid quenching).	

Electrical/Optical Characteristics at Ta=25°C: (B)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	I _F =20mA	200	400	--	mcd
Dominant Wavelength	λd	I _F =20mA	465	--	475	nm
Forward Voltage	V _F	I _F =20mA	2.8	3.2	3.6	V
Viewing Angle	2θ1/2	I _F =20mA	--	120	--	deg
Reverse Current	I _R	V _R =5V	--	--	10	uA

Notes:

1. Tolerance of Luminous Intensity ±15%
2. Tolerance of Forward Voltage ±0.1V

PRODUCTION PROCESS



Die Bond



Wire Solder



Compression Moulding



Taping



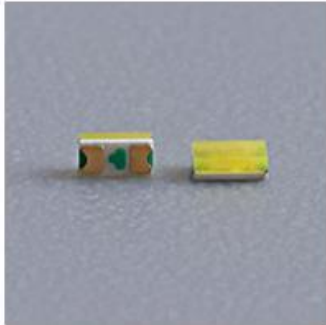
Spectrometer



Slicing



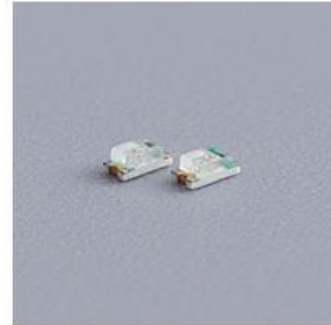
RELATED PRODUCTS



AL-S0402NWY-LP04-M



AL-S0602TGC-LP11-M



AL-S0603UBC-L006-M



AL-S0802TGC-LP10-M



AL-S0805SRC-L011-M



AL-S1204RGBC-L014-M



AL-S1204UBC-L014-M



AL-S1206DRC-L011-M



AL-S1206SRVGC-L0RG-M

APPLICATIONS

APPLICATION SCENARIOS:

1. Automotive: Dashboards, stop lamps, turn signals
2. Backlighting: LCDs, Key pads advertising
3. Status indicators: Consumer & industrial electronics
4. General use



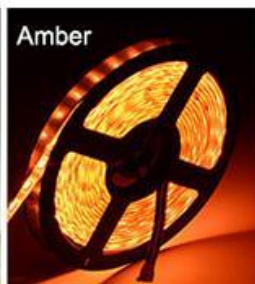
Warm white



Natural White



White



Amber



Red



Yellow



Green



Blue

WHY CHOOSE US



Customized design is available, OEM and ODM are welcomed.



We have best production capability, best quality control, best service.



Reply your inquiry in 24 working hours.



Customized design is available, OEM and ODM are welcomed.

CERTIFICATION



ABOUT US

Dongguan Zhiding Electronics Technology Co., LTD is a high-tech enterprise specialized in manufacturing, designing and selling high quality LED lighting and LED related products. Zhaoqing Factory has more than 1000 employees, including more than 80 technicians focused on research and development.

We have advanced testing equipment, can be "normal temperature continuous light life test", "high temperature and high humidity cycle test", "cold and hot shock cycle test" and "high and low temperature storage test", "high and low temperature continuous light test", "salt spray test" and reliability test, for all kinds of product reliability test of periodic on a regular basis, provides the high quality for our product quality assurance.



COOPERATIVE CLIENT

F&C®

SUGA®

OPT®
Machine Vision

USI®
Realizing ICAS Together

mega
celljine

UCHI

BlueSky

TOPBAND

BiROD

vtech®

SHIPPING

SHIPPING
SHIPPING

- 1.FedEx/DHL/UPS/TNT for samples, Door-to-Door
- 2.By Air or by Sea for batch goods, for FCL; Airport/ Port receiving
- 3.Customers specifying freight forwarders or negotiable shipping methods
- 4.Delivery Time: 3-7 days for samples; 5-25 days for batch goods

FedEx
Express

EMS 全球邮政特快专递
WORLDWIDE EXPRESS MAIL SERVICE



DHL
EXPRESS



FAQ

Q1. What is the MOQ(Minimum Order Quantity)?

A4. For new customers, they can place a trial order to test the product's quality and then sales in their markets.

Q2. Can you provide customization and OEM service?

A2. Yes, we offer customization and OEM service, please tell us your requirements clearly.

Q3. Will you deliver the right goods as ordered? How can I trust you?

A3. Yes, we will. The core of our company culture is honesty and credit. We warmly welcome customer or his agent or his 3rd party come to our factory for detail checking. We protect customer's design, sales area competition, ideas of design and all of your private information.

Q4. Can you deliver in sufficient quantities all time?

A4. For general products, We have stock, shipment in 3 days once we receive the payment. If the order quantity is large, we hope customers place order 15 days in advance.

Q5. How about your supply ability?

A5. 80000K per month.

Q6. If your company can custom products as my required and put my LOGO on?

A6. All of our product are designed and customized as required including color, print, pattern and LOGO.

Sales Representative

Elsa Xiao

Oversea Sales Manager

Dongguan Zhiding Electronics Technology CO., LTD

Add: No. 8, Yinling street, XiaQiao, Dongcheng Dist., Dongguan, Guangdong, China

Web: <http://www.allightled.com/>

E-mail: sales@zhidingled.com

Skype: elsa.xiao0418

Mobile/Whatsapp: 86-13412570091

Tel: 86-769-22665151

Fax: 86-769-22665155

WELCOME TO CONTACT US>>>>WWW.ZHIDINGLED.COM



Oversea Sales Manager

Elsa Xiao

E-mail:sales@zhidingled.com

Skype: elsa.xiao0418

Mobile: 86-13412570091

WhatsApp: 86-13412570091

Tel: 86-769-22665151

Fax:86-769-22665155