High power led 1.5W RGB

Features:

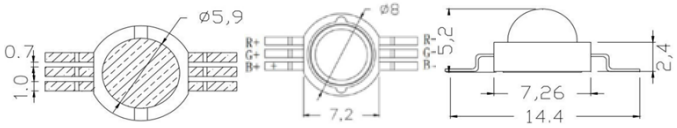
High brightness RGB LED round package

Light output intendity grade Viewing angle 140 degree

Light color: RGB

RoHS compliant

Dimensions:



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ±0.1mm unless otherwise noted.

Absolute Maximum Rating @ Ta=25°C

Parameter	Symbol	Maximum Rating	Unit
Continuous Forward Current	IF	150	mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	IFp	200	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	500	mW
Electrostatic discharge	ESD	1000	V
Operating Temperature Range	TOPR	-25°C to +85°C	
Storage Temperature Range	TSTG	-35°C to +105°C	
Lead Soldering Temperature (3mm from tne base of the epoxy bulb)	TSOL	360°C	

Electrical / Optical Characteristic @ Ta=25°C

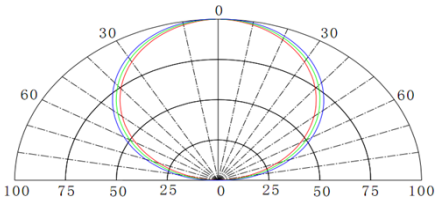
Parameter	Symbol	Color	Min	Typ	Max	Unit	Test Condition
Forward Voltage	VF	R	2.0	2.2	2.4	V	IF=150 mA
		G	3.0	3.2	3.4	V	IF=150 mA
		B	3.0	3.2	3.4	V	IF=150 mA
Luminous Flux	Φ	R	40	45	50	Lm	IF=150 mA
		G	60	65	70	Lm	IF=150 mA
		B	15	20	25	Lm	IF=150 mA
Dominant Wavelength	Wld	R	620	622.5	625	nm	IF=150 mA
		G	520	522.5	525	nm	IF=150 mA
		B	460	462.5	465	nm	IF=150 mA
Reverse Current	IR				10	μA	VR=5V
Viewing Angle	2θ1/2			120	140	deg	IF=350 mA
Recommend Forward Current	IF(rec)	RGB			150	mA	

tolerance of measurement of forward voltage±0.1V

Typical Electrical / Optical Character Curves

(25 ° Ambient Temperature Unless Otherwise Noted)

Spotial Disttrbution



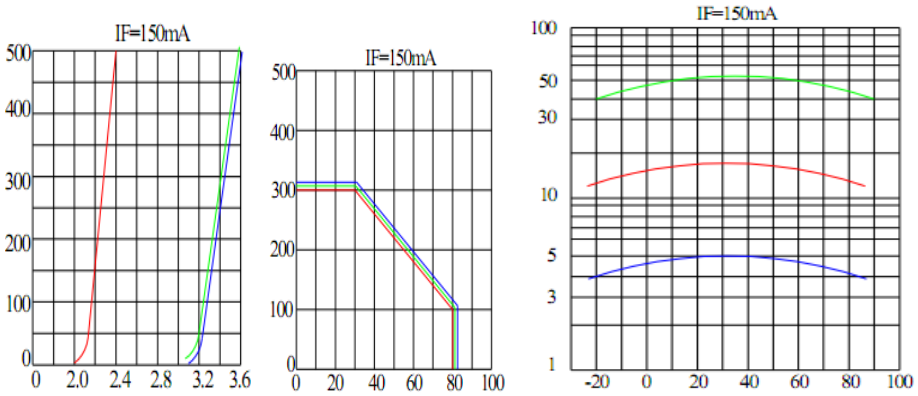
IV(%)

Typical electrical-optical

Characteristics curvers

Forward characters Temperature characters Temperature characters

Forward current(mA) Forward current(mA) Relative luminous Intensity



Notes:

The data are an typical presenlation of the product,Contact customer service for details of technical information and warranty.The product is sensitive to staticantistatic operation environment is recommended. Products are shipped ineither bulk bag package or taping.

Reliability Tests

Type	Test Item	REF Standard	Test Condition	Note	Number of Damaged
Environmental Sequence	Temperature Cycle	JIS C 702 (1997)A-4	-20°C*30mins~25°C *5mins~ 80°C * 30mins	100 cycles	0/100
	High Humidity Heat Cycle	JIS C 7021 (1997)A-5	30°C→65°C, RH= 90% 24hrs/1cycle	10 cycles	0/100
	High Temperature Storage	JIS C 7021 1997)B-10	Ta= 80°C	1000h	0/100
	Humidity Heat Storage	JIS C 7021 (1997)B-11	Ta=60°C RH=90%	1000h	0/100
	Low Temperature Storage	JIS C 7021 (1997)B-12	Ta= -30°C	1000h	0/100
Operation Sequence	DC Operatin Life	JIS C 7035 (1985)	Ta= 25°C, IF=350mA	1000h	0/100
	High Humidity Heat Life Test		Ta=60°C RH=90% IF=350mA	500h	0/100

	Low Temperature Life Test		Ta= -20°C, IF=350m	1000h	0/100
Destructive Sequence	Resistance to Soldering Heat	JIS C 7021 (1997)A-11	Tsol=260±5℃,10sec (3mm rom the base of the epoxy bulb)	1 time	0/20
	Solderability	JIS C 7021 (1997)A-2	Tsol=235 ±5℃,5sec (Using flux)	1 time (over 95%)	0/20
	Lead Pull/Bend Test	JIS C 7021 (1997)A-11	Load 2.5N (0.25kgf) 0°→ 90°→0°Bending 3 times	No noticeable damage	0/20

***Refer to reliability test standard specification for in this line.**