



VISIBLE LED

1.ELEMENT APPEARANCE

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Model No.	Material		Lighting Color	Resin Color
RT5-5821RGBEW	R	AlInGaP	Red	White Diffused
	G	InGaN	Green	
	B	InGaN	Blue	

2.ABSOLUTE MAXIMUM RATINGS AT Ta=25°C

Characteristic	Symbol	Rating	Unit
Forward direct current	IFM	25	mA
Reverse voltage	VRM	4	V
Operating temperature	Topr	-25 to +85	°C
Storage temperature	Tstg	-25 to +100	°C
Power dissipation	Pd	R60 / G,B95	mW

Lead soldering temperature (5mm from body) 260°C for 5sec.

3.ELECTRO-OPTICAL CHARACTERISTICS AT Ta=25°C

Characteristic	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous intensity	Iv	IF= 20 mA	R	625	1041	mcd
			G	1000	1667	
			B	350	583	
Forward voltage	VF	IF= 20 mA	R	1.8	2.4	V
			G	2.8	3.8	
			B	2.8	3.8	
Reverse current	IR	VR=4V			10	μ A
Peak emission wavelength	λ p	IF=20mA	R	630		nm
Dominant wavelength	λ d	IF=20mA	R	622		nm
			G	525		
			B	470		
Spectral line half width	Δ λ	IF=20mA	R	20		nm
			G	20		
			B	25		
Viewing angle	2θ 1/2	IF=20mA		57		deg.

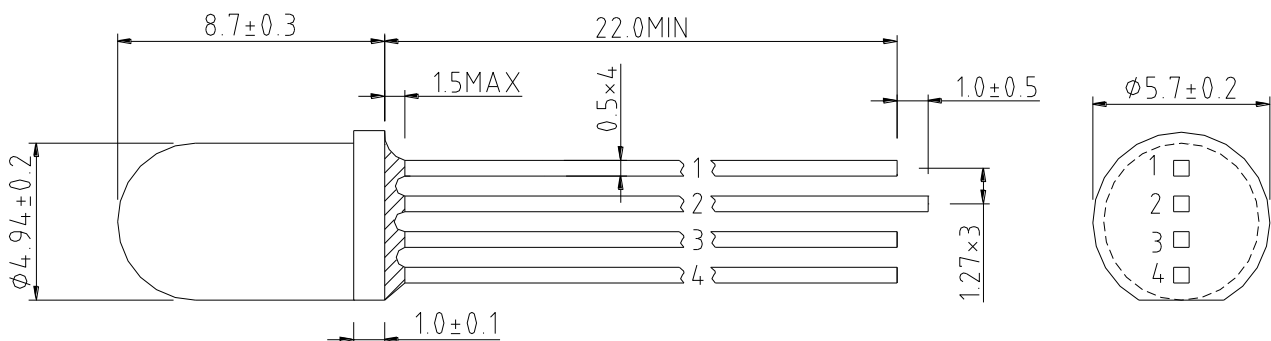
Luminous Intensity Measurement allowance is ±15%

Forward voltage Measurement allowance is ±0.05V

Emission wavelength Measurement allowance is ±1nm

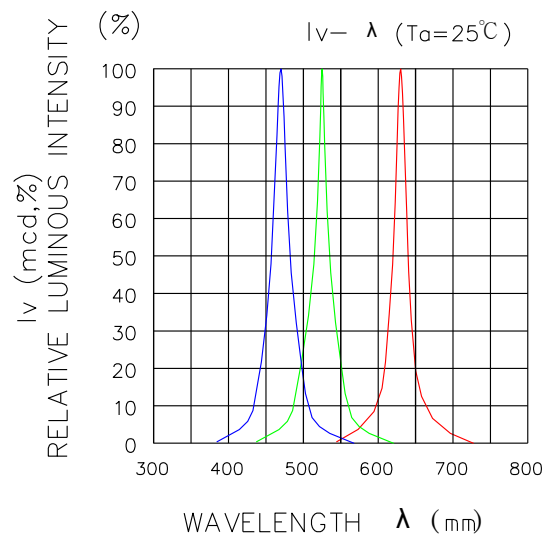
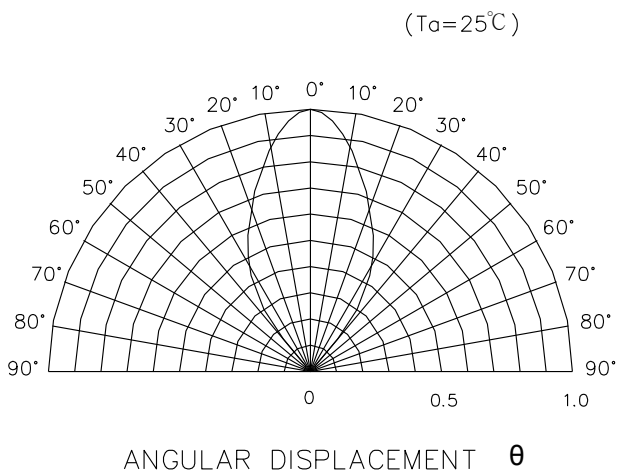
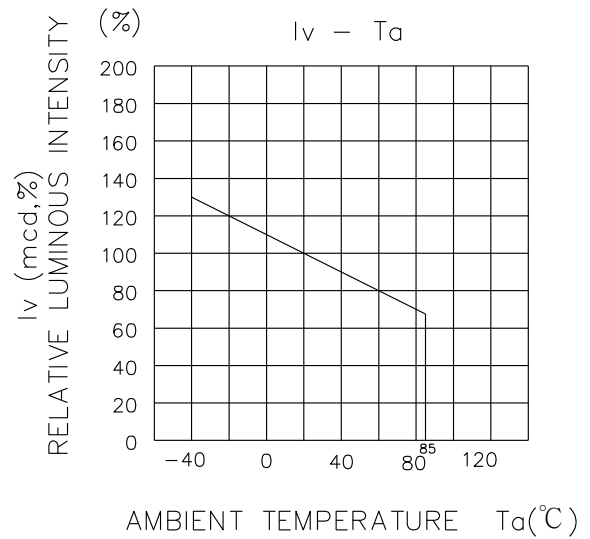
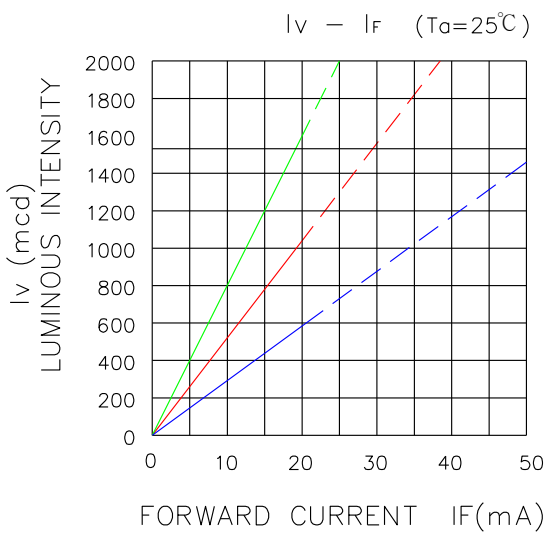
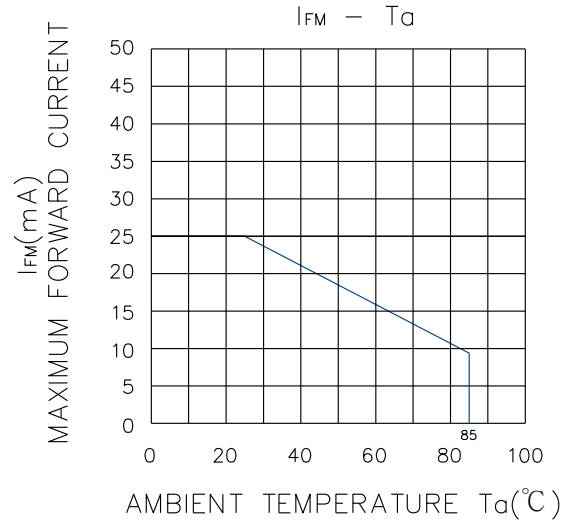
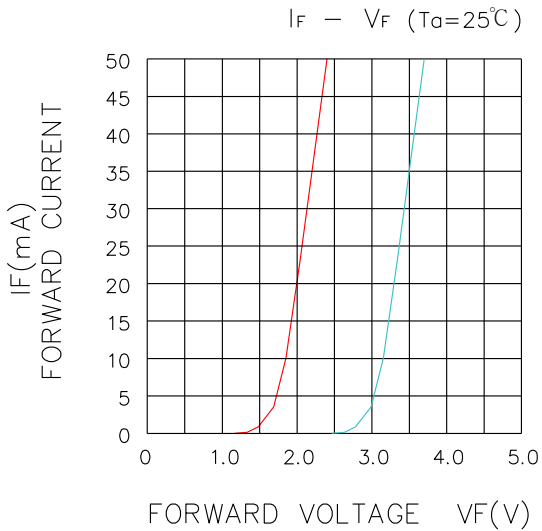
4.DIMENSIONS UNIT : m/m

- SIGN :**
1. RED CATHODE
 2. COMMON ANODE
 3. BLUE CATHODE
 4. GREEN CATHODE





Model : RT5-5818RGBW-B





Reliability Test Items

CONDITIONS :

The reliability of products shall be satisfied with items listed below.

NO.	<u>Item</u>	Condition	Time/Cycle	Number of Damaged
1	Soldering Heat Test	260°C	5 sec	0/60
2	Thermal Shock	0°C (5min) ~100°C (5min)	20 cycle	0/60
3	High Temp. Storage	100°C	1000 Hrs	0/60
4	Low Temp. Storage	-40°C	1000 Hrs	0/60
5	Operation Temperature Cycle Test	-40°C ~85°C	100 Cycles, 200Hrs	0/60
6	High Temp. High Humidity Test	85°C , 85% RH	1000Hrs	0/60
7	DC Operation Life Test	IF=20mA	1000Hrs	0/60