Feature:

- Diffused lens
- Package in tape and reel
- Ultra bright PLCC6 RGB LED
- Direct Drive
- InGaN technology for IB/IG
- AlInGaP technology for R
- 120 degree viewing angle
- Black Face
- Water resistance IPX5

Description:

This ultra bright PLCC6 RGB LEDs have a height profile of 2.60mm. Combination of high brightness output and direct drive capability, these LEDs are ideal for architecture lighting, status indication, and color mixing applications.

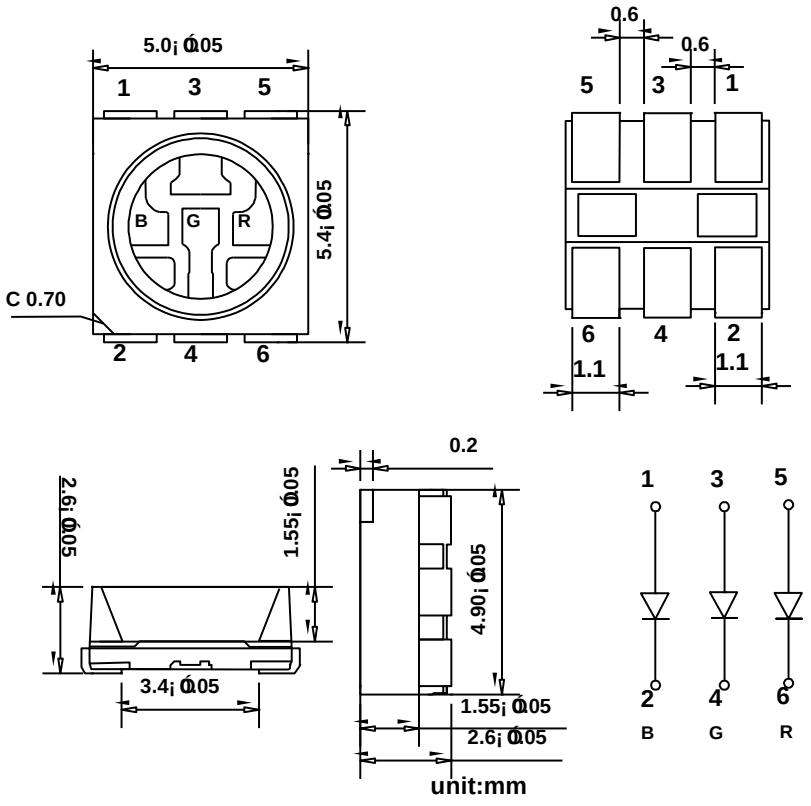
Application:

- Status indication
- Back lighting application
- Architecture lighting

Certification & Compliance:

- TS16949
- ISO9001
- IEC60529
- RoHS Compliant

Dimension:



Units: mm / tolerance = +/-0.1mm

Electrical / Optical Characteristic (T=25 °C)

Product	Color	I_F(mA)	V_F(V)		λ_D (nm)			I^*_V(mcd)	
			Typ.	max	min	Typ.	max	min	Typ.
QTLP679-RGB3	Red	20	1.9	2.6	621	---	636	340.0	530.0
	True Green	20	3.2	3.8	520	---	535	900.0	1300.0
	Blue	20	3.2	3.8	461	---	476	210.0	280.0

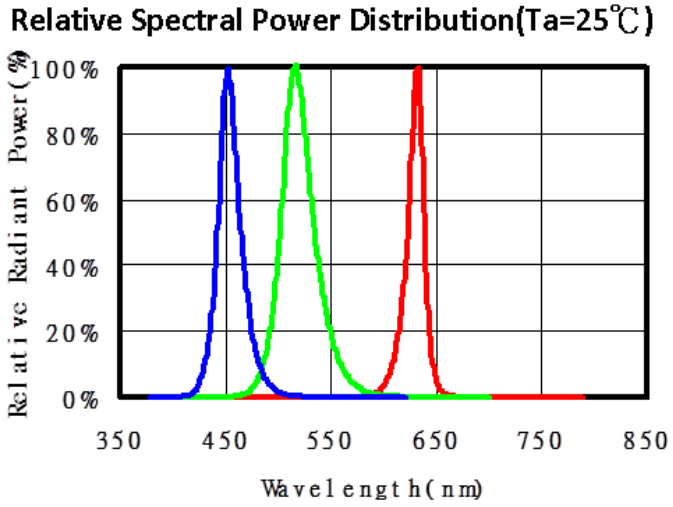
Absolute Maximum Rating

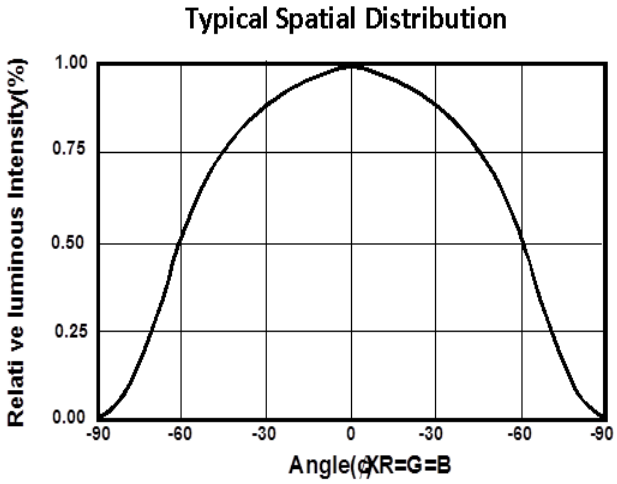
Part #	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
InGaN (IB/IG)	110	25	90	5	-40 - 80	-40 - 90	260
AlInGaP (R)	120	50	60	5	-40 - 80	-40 - 90	260

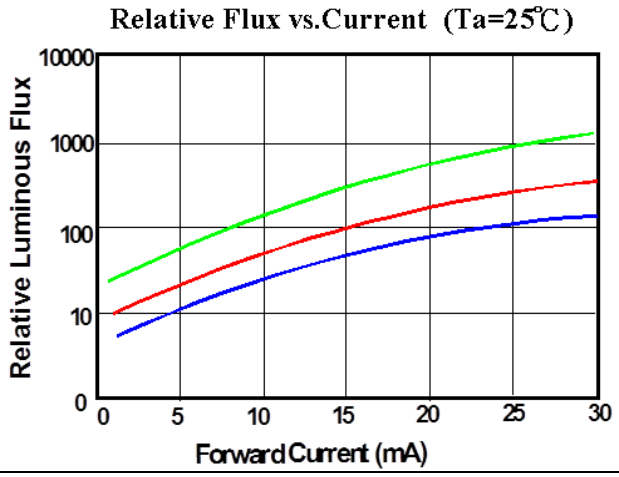
*Duty 1/10 @ 10KHz

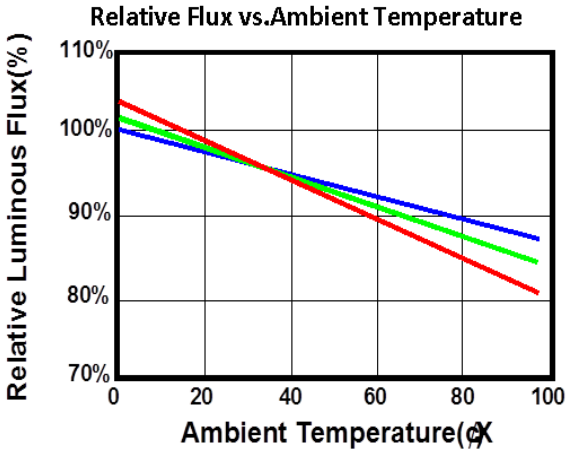
** IR Reflow for no more than 10 sec @ 260 °C

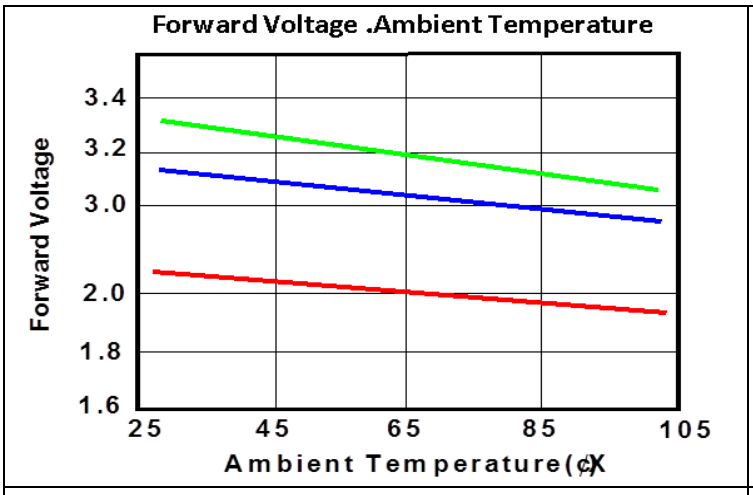
Characteristic Curves:

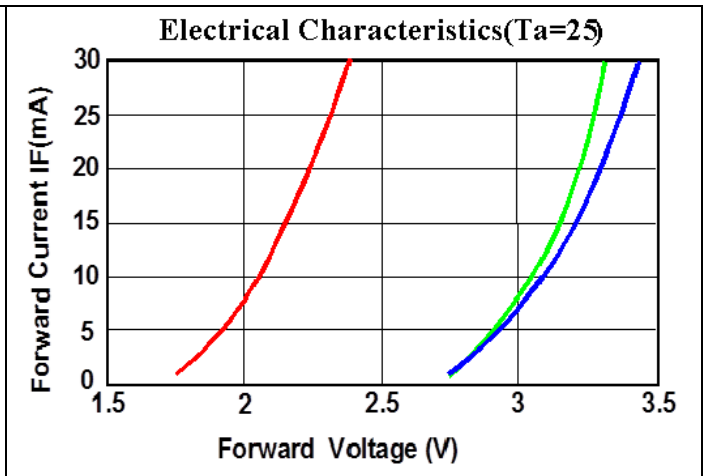


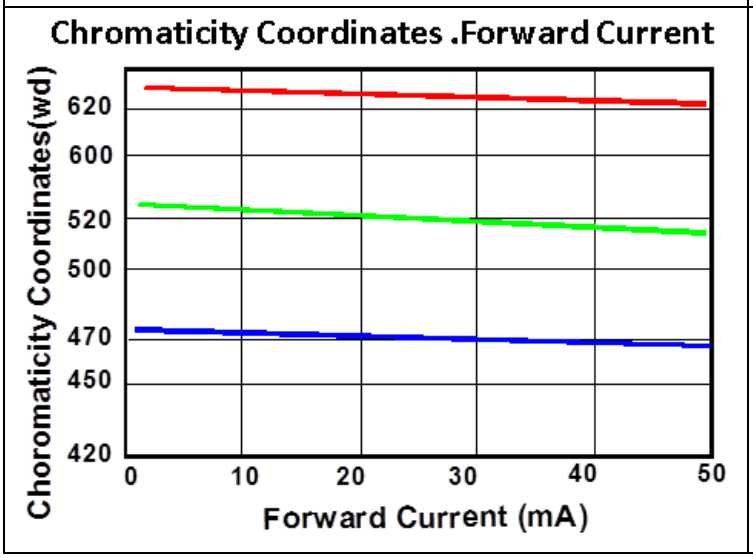


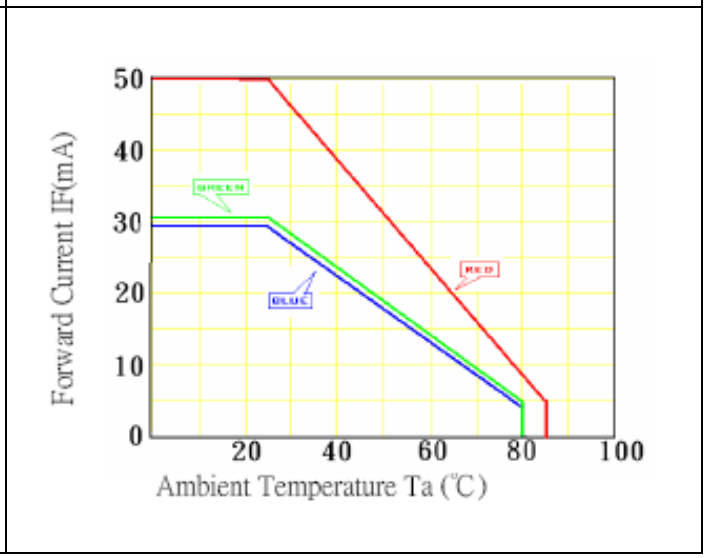





Forward Voltage .Ambient Temperature
Forward Voltage
3.4
3.2
3.0
2.0
1.8
1.6
25
45
65
85
105
Ambient Temperature(℃)

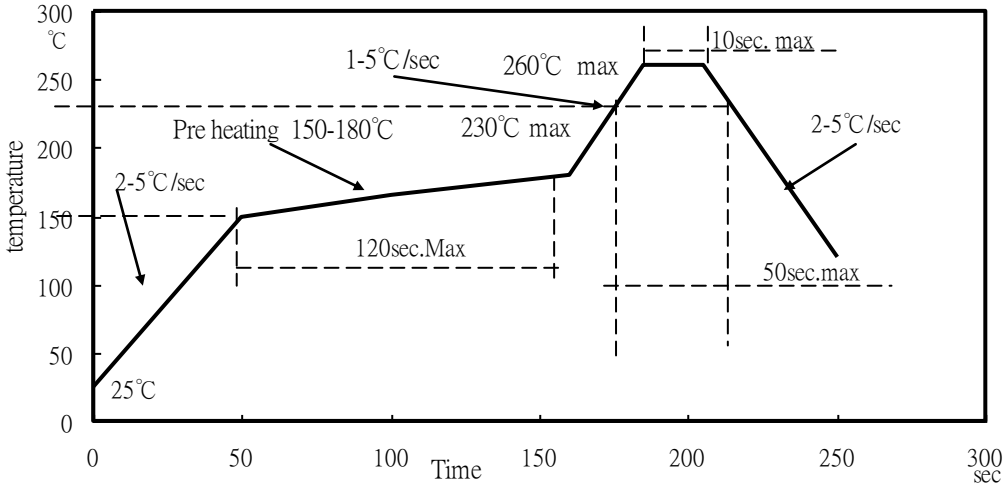

Electrical Characteristics(Ta=25)
Forward Current IF(mA)
30
25
20
15
10
5
0
1.5
2
2.5
3
3.5
Forward Voltage (V)

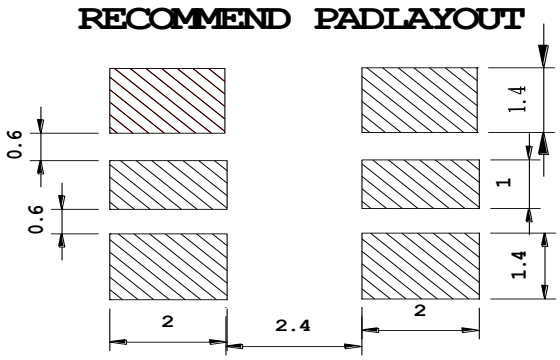

Chromaticity Coordinates .Forward Current
Choromaticity Coordinates(wd)
620
600
520
500
470
450
420
0
10
20
30
40
50
Forward Current (mA)


Forward Current IF(mA)
50
40
30
20
10
0
20
40
60
80
100
Ambient Temperature Ta (℃)

Solder Profile & Footprint:

-Recommended tin glue specifications: melting temperature in the range of 178~192 ^{O}C
-The recommended reflow soldering profile is as follows (temperatures indicated are as measured on the surface of the LED resin):



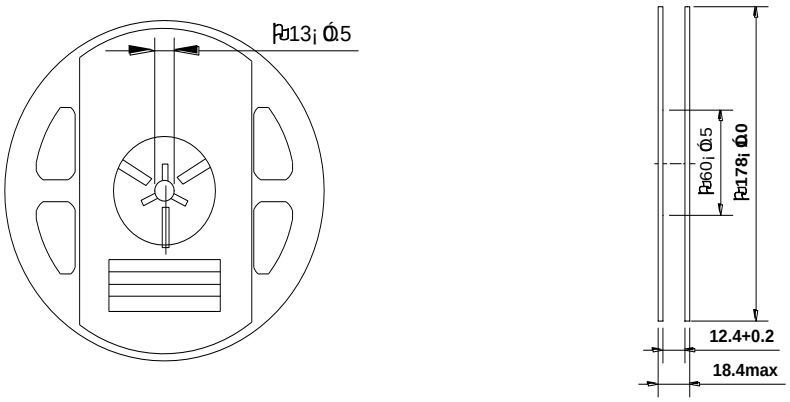


(Proposed Solder footprint)

Units: mm tolerance: +/- 0.1mm

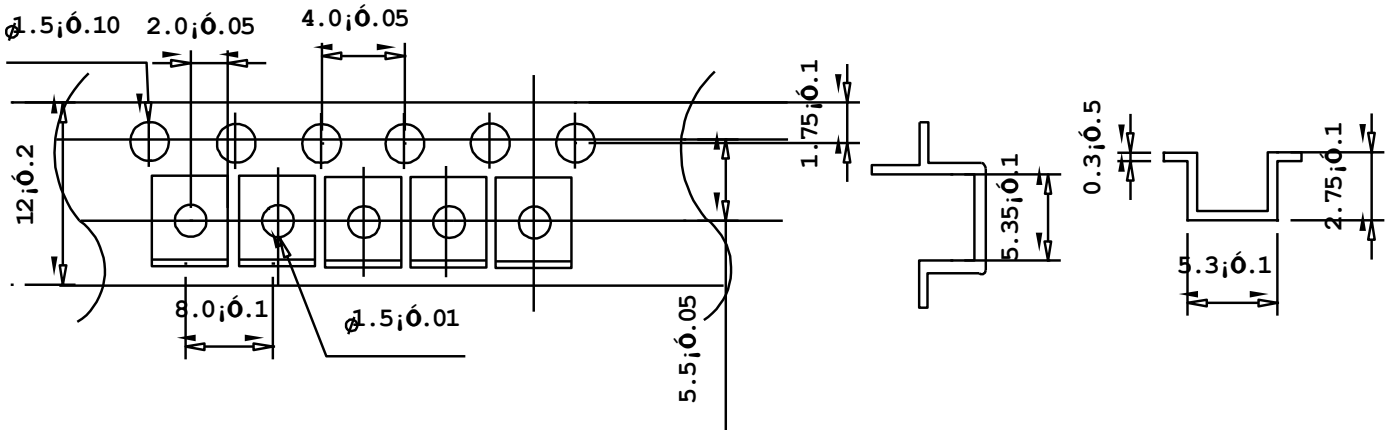
Packing:

Reel Dimension:



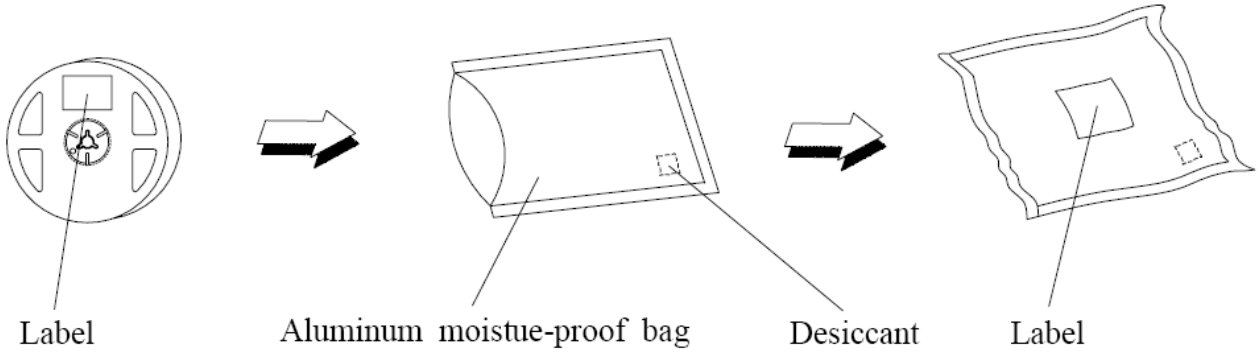
Note: 01.The tolerance unless mentioned is ±0.1mm.
02.The measured unit is "mm".

Tape Dimension:



Labeling:





Ordering Information:

Part #	Orderable Part #	Spec Range	Quantity per reel
QBLP679-RGB3	QBLP679-RGB3	Standard Spec	500 units

Revision History:

Description:	Revision #	Revision Date
New Release of QBLP679-RGB3	V1.0	01/31/2011
Information/chart updates	V1.1	02/08/2011
Add Water Resistance Rating IPX5	V2.0	04/04/2011