Feature:

- Water Clear Lens
- 5 mm lens Piranha
- Package in Tube
- AlInGaP technology for R/Y
- INGaN technology for IW/IB
- Super Flux Output
- 30 º Viewing angle
- XX= Color; Z= Drive Current

Description:

This Super Flux LED has 5 mm lens height. It is ideal for automotive lighting applications.

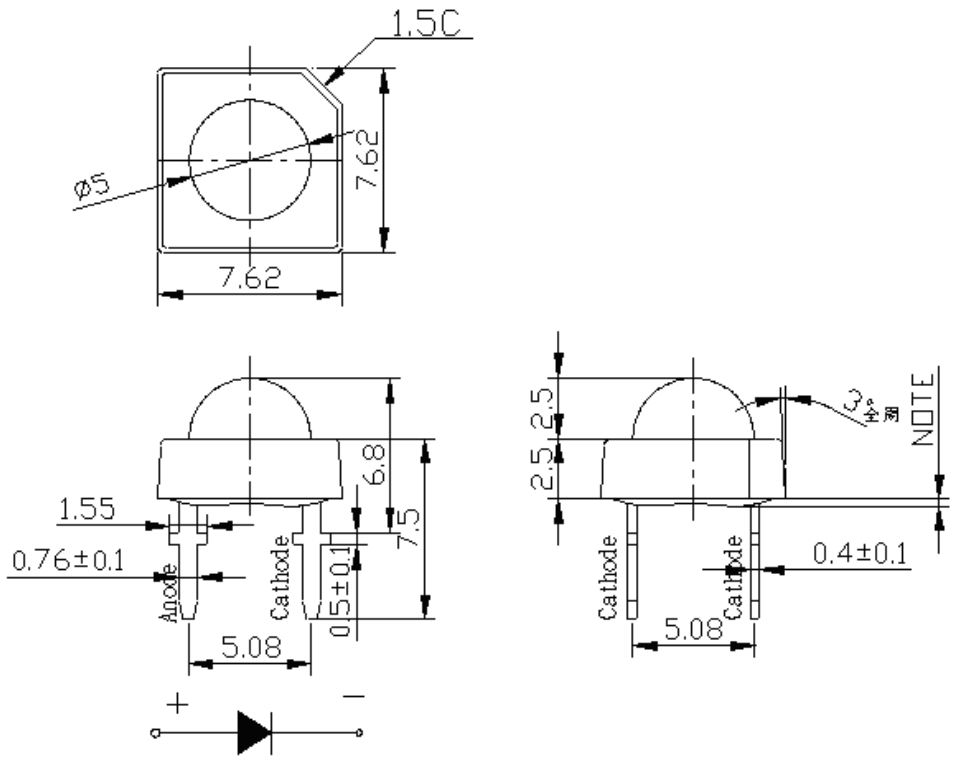
Application:

- Automotive lighting
- General lighting

Certification & Compliance:

- TS16949
- ISO9001
- RoHS Compliant

Dimension:



Units: mm / tolerance = +/-0.2mm

Electrical / Optical Characteristic (T_A=25 °C)

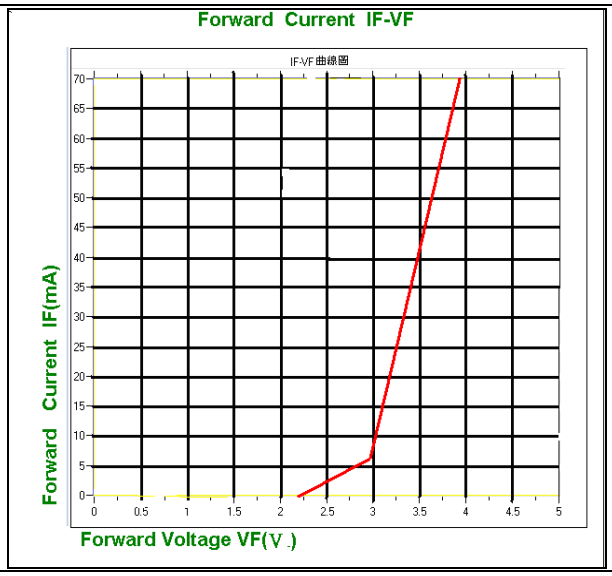
Product	Color	I_F(mA)	V_F(V)		λ_D (nm)			Φ_V(mlm)	
			Typ.	max	Min.	Typ.	Max.	Min	Typ.
QBPP530C-RD	Red	50	2.3	2.7	620	---	630	2120	4200
QBPP530C-YD	Yellow	50	2.3	2.7	585	---	597	21200	4500
QBPP530C-IBM	Blue	30	3.2	4.0	462	---	473	960	1630
QBPP530C-IWM	White	30	3.2	4.0	---	X=0.271 Y=0.263	---	3590	6800

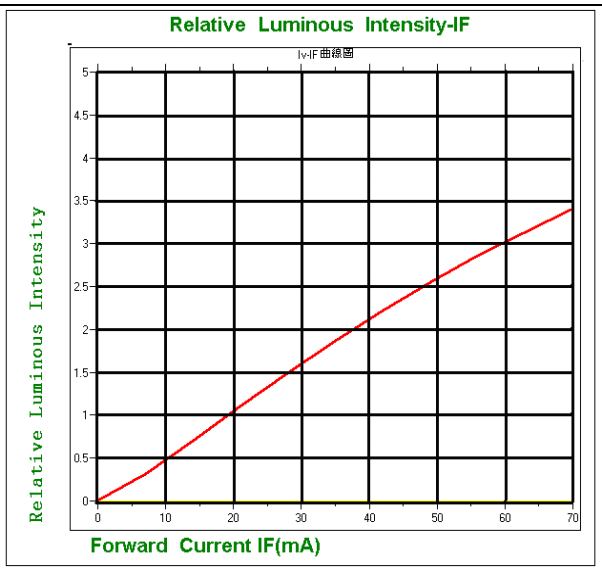
Absolute Maximum Rating

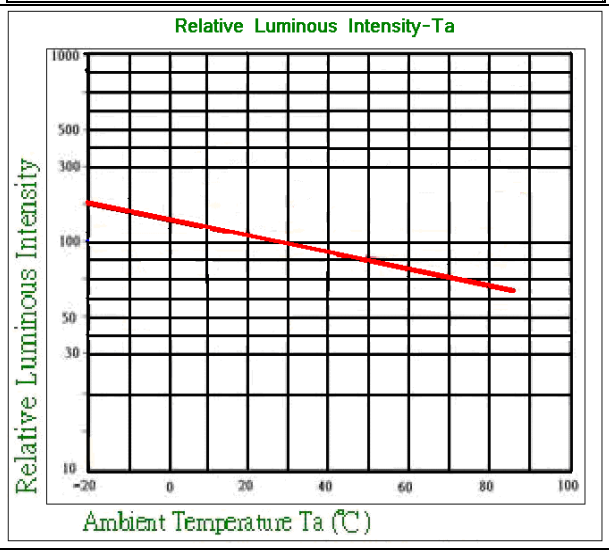
Material	P_d (mW)	I_F (mA)	I_{FP} (mA)*	V_R (V)	T_{OP} (°C)	T_{ST} (°C)	T_{SOL} (°C)**
InGaN	200	50	100	5	-30 to +80	-40 to +100	260
AlInGaP	180	60	100	8	-30 to +80	-40 to +100	260

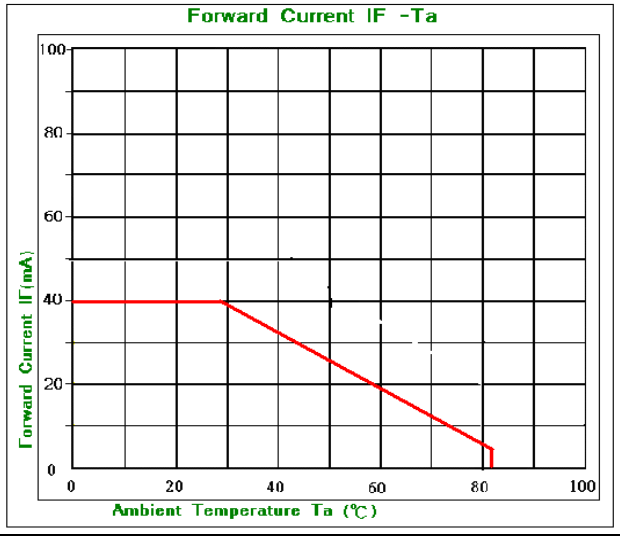
*Duty 1/10 @0.1ms Pulse Width
** IR Reflow for no more than 5 sec @ 260 °C

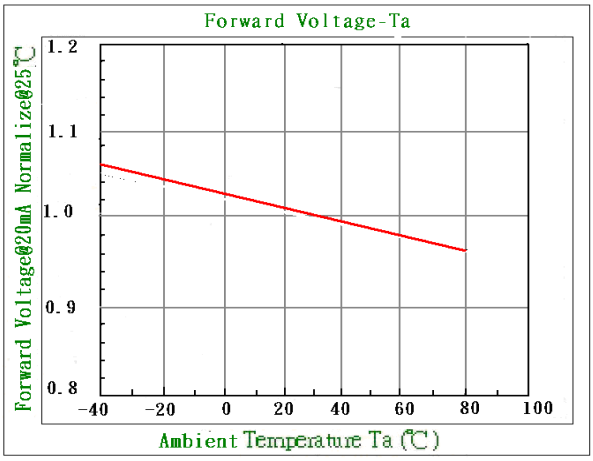
Characteristic Curves For InGaN:

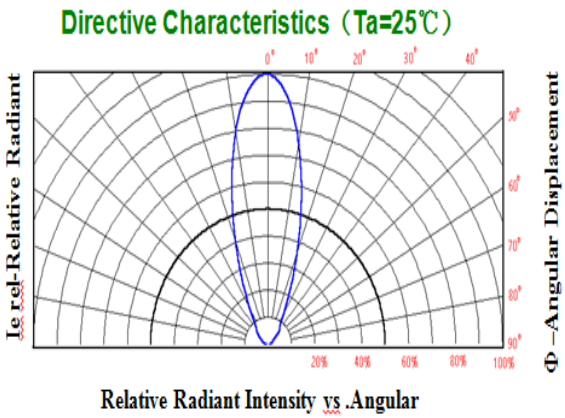




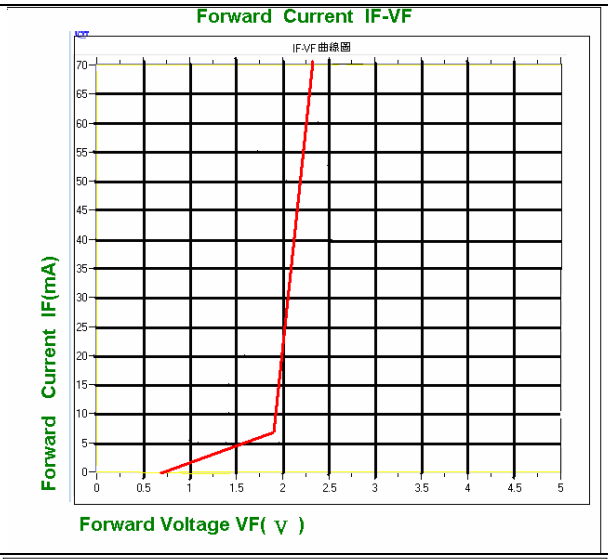


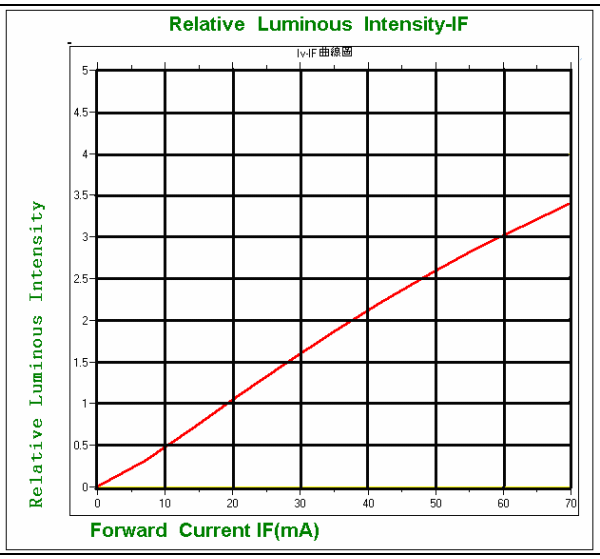


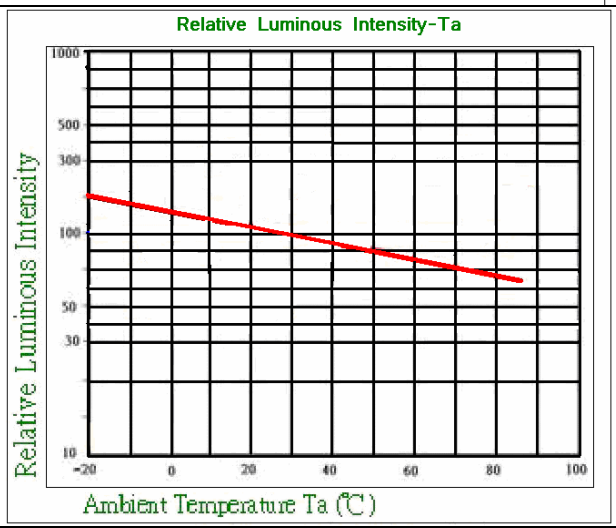


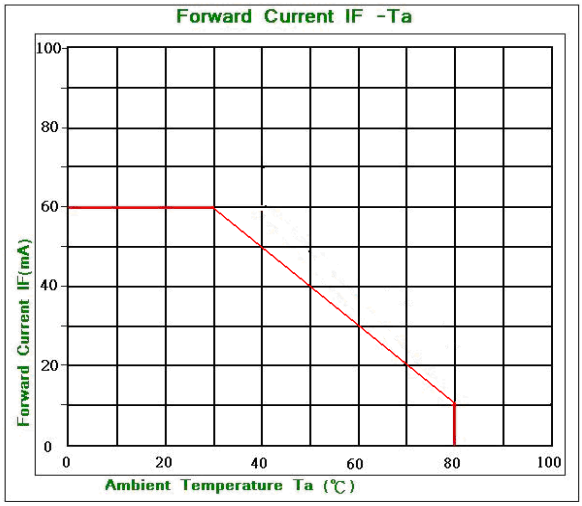


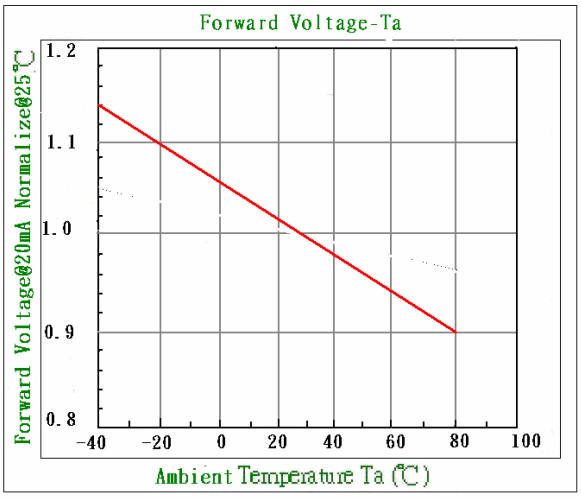
Characteristic Curves For AlInGaP:

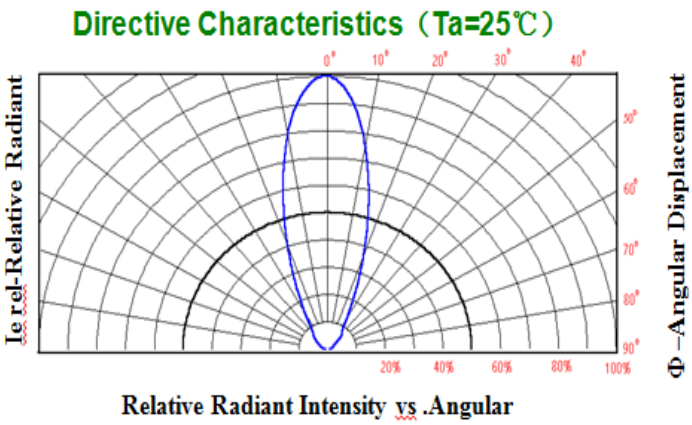






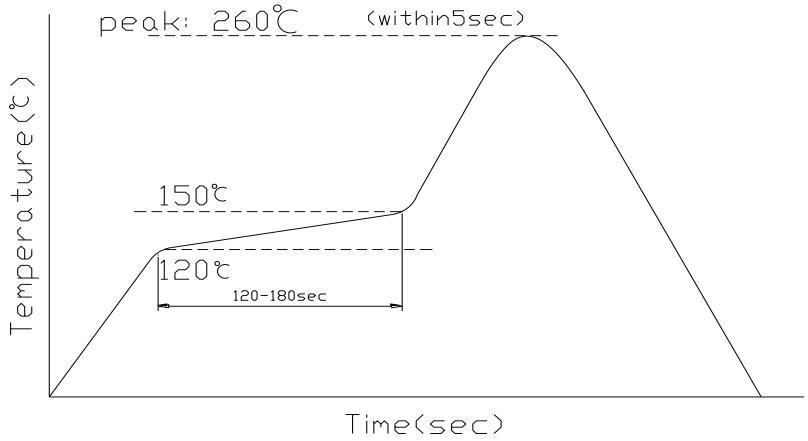






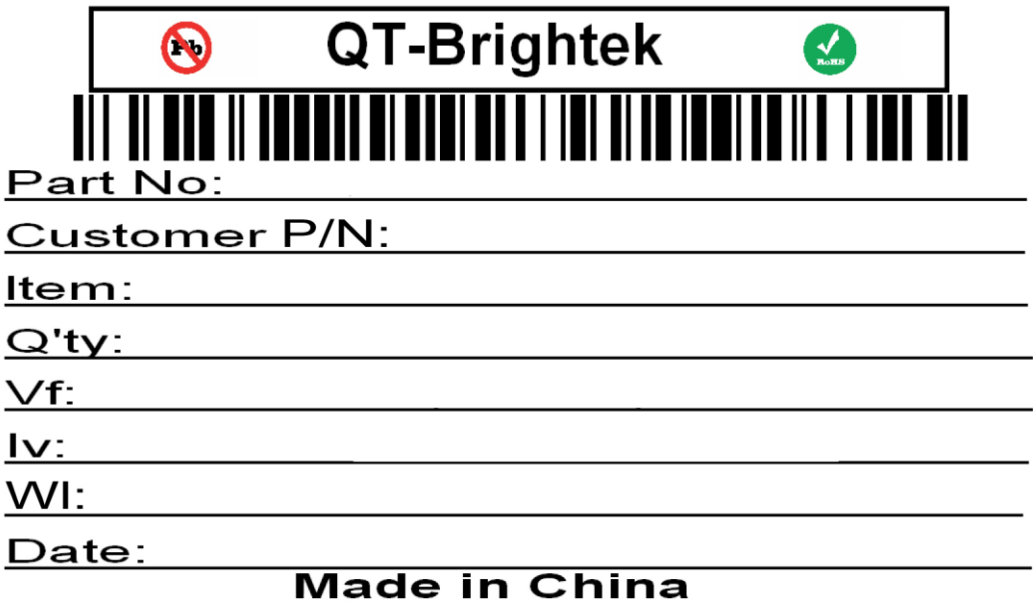
Solder Profile & Footprint:

WAVE SOLDERING PROFILE FOR LEAD FREE PROCESS:



Packing: TBD

Labeling:



Ordering Information:

Part #	Orderable Part #	Spec Range	Quantity per Tube
QBPP530C-RD	QBPP530C-RD	Φv = 4200 mlm typ. @ I_F=50mA λ_D=620-630nm	TBD
QBPP530C-YD	QBPP530C-YD	Φv = 4500 mlm typ. @ I_F=50mA λ_D=585-597nm	TBD
QBPP530C-IBM	QBPP530C-IBM	Φv = 1630 mlm typ. @ I_F=30mA λ_D=462-473nm	TBD
QBPP530C-IWM	QBPP530C-IWM	Φv = 7800 mlm typ. @ I_F=30mA (X,Y)=(0.215, 0.321)	TBD

Revision History:

Description:	Revision #	Revision Date
New Release of QBPP530C-XXZ	V1.0	06/25/2010

Disclaimer

QT-BRIGHTEK reserves the right to make changes without further notice to any products herein to improve reliability, function or design. QT-BRIGHTEK does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

Life Support Policy

QT-BRIGHTEK's products are not authorized for use as critical components in life support devices or systems without the express written approval of QT-BRIGHTEK. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.

2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.