

**Feature:**

- Water Clear Lens
- 3 mm lens Piranha
- Package in Tube
- InGaN
- Super Flux Output
- 50 ° Viewing angle

**Description:**

This Super Flux LED has 3 mm lens height. It is ideal for automotive lighting applications.

**Application:**

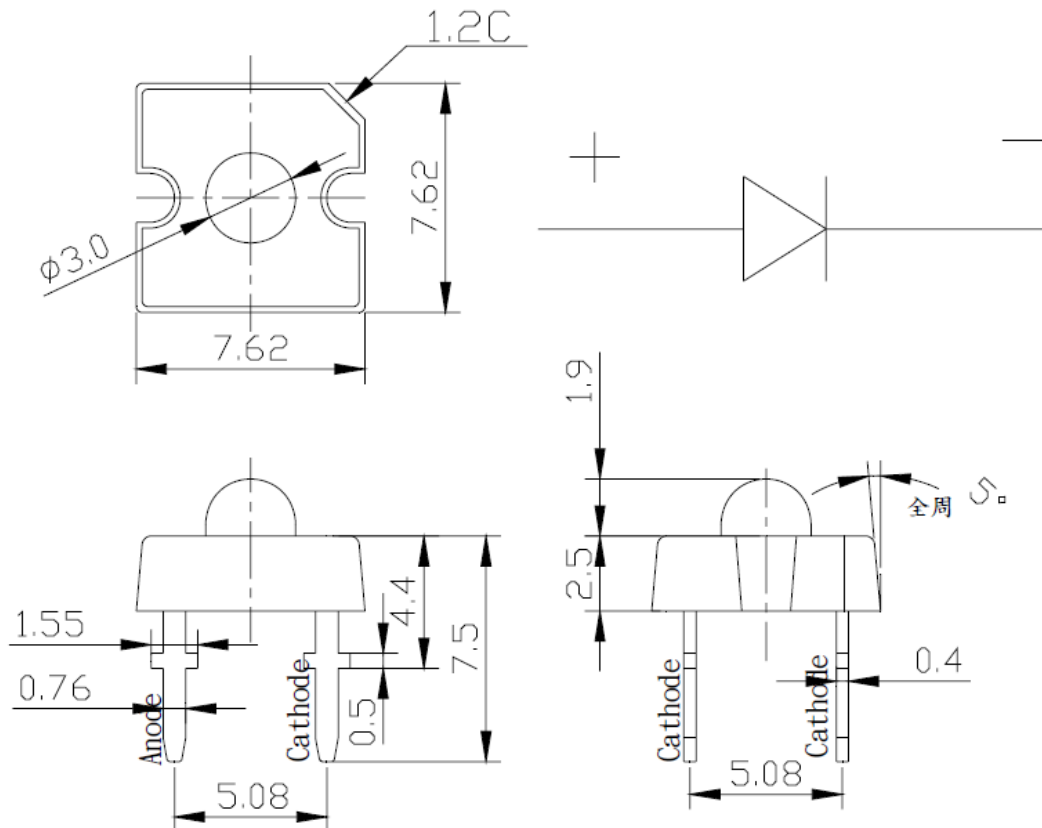
- Automotive lighting
- General lighting

**Certification & Compliance:**

- TS16949
- ISO9001
- RoHS Compliant



**Dimension:**



Units: mm / tolerance = +/-0.2mm

**Electrical / Optical Characteristic** ( $T_A=25\text{ }^\circ\text{C}$ )

| Product     | Color | $I_F$ (mA) | $V_F$ (V) |     | $\lambda_D$ (nm) |      |      | $\Phi_V$ (mlm) |      |
|-------------|-------|------------|-----------|-----|------------------|------|------|----------------|------|
|             |       |            | Typ.      | max | Min.             | Typ. | Max. | Min            | Typ. |
| QBPP350C-IB | Blue  | 20         | 3.2       | 4.0 | 462              | ---  | 473  | 740            | 1300 |

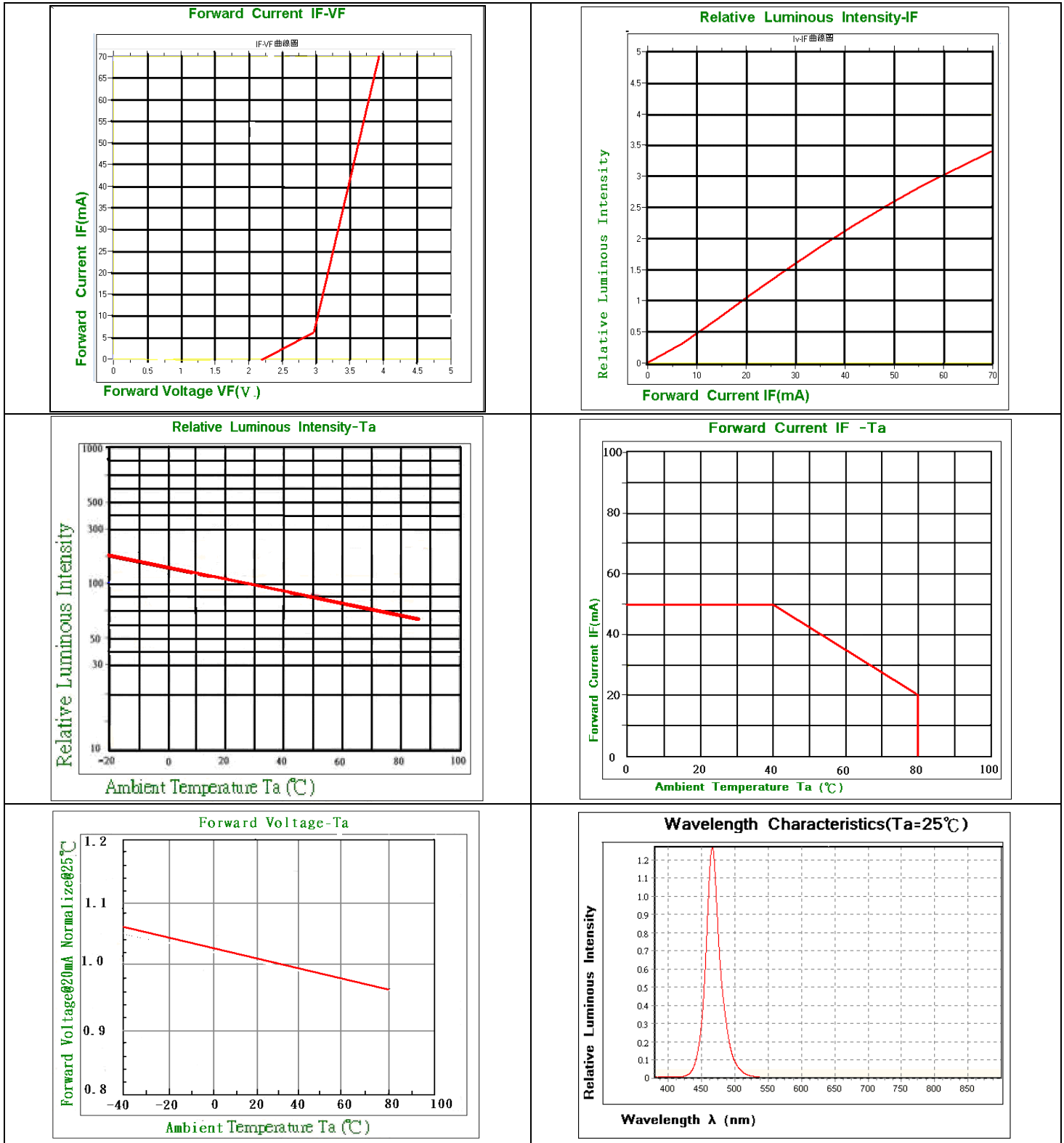
**Absolute Maximum Rating**

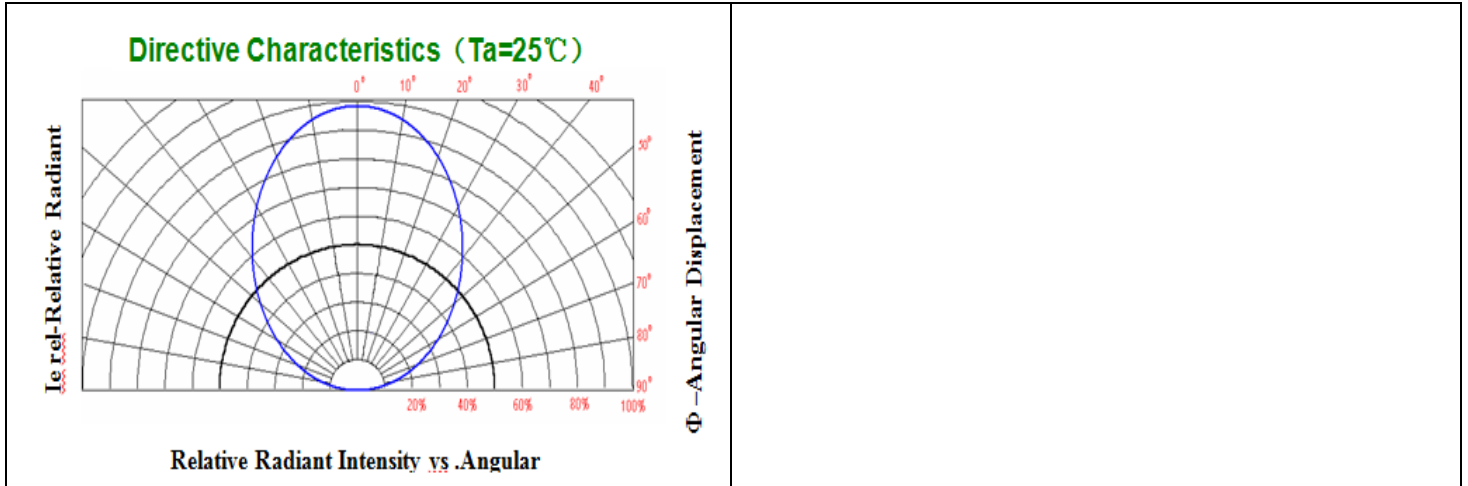
| Material | $P_d$ (mW) | $I_F$ (mA) | $I_{FP}$ (mA)* | $V_R$ (V) | $T_{OP}$ ( $^\circ\text{C}$ ) | $T_{ST}$ ( $^\circ\text{C}$ ) | $T_{SOL}$ ( $^\circ\text{C}$ )** | ESD (V) |
|----------|------------|------------|----------------|-----------|-------------------------------|-------------------------------|----------------------------------|---------|
| InGaN    | 200        | 50         | 100            | 5         | -30 to +80                    | -40 to +100                   | 260                              | 6000    |

\*Duty 1/10 @0.1ms Pulse Width

\*\* IR Reflow for no more than 5 sec @ 260 $^\circ\text{C}$

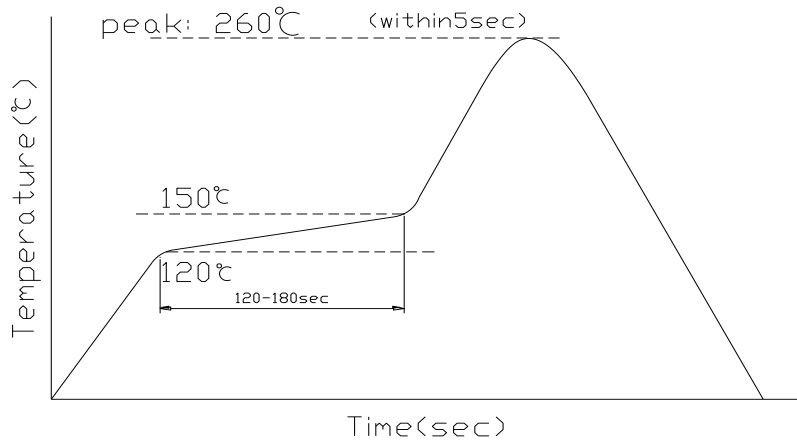
**Characteristic Curves For InGaN:**





**Solder Profile & Footprint:**

WAVE SOLDERING PROFILE FOR LEAD FREE PROCESS:



**Packing: TBD**

|                      |                     |             |
|----------------------|---------------------|-------------|
| Product: QBPP350C-IB | Date: June 25, 2011 | Page 4 of 6 |
|                      | Version# 1.0        |             |

**Labeling:**

Part No: \_\_\_\_\_

Customer P/N: \_\_\_\_\_

Item: \_\_\_\_\_

Q'ty: \_\_\_\_\_

Vf: \_\_\_\_\_

Iv: \_\_\_\_\_

WI: \_\_\_\_\_

Date: \_\_\_\_\_

**Made in China****Ordering Information:**

| Part #      | Orderable Part # | Spec Range  | Quantity per Tube |
|-------------|------------------|---|-------------------|
| QBPP350C-IB | QBPP350C-IB      | $\Phi v = 1300 \text{ mlm typ. @ } I_F=20\text{mA}$<br>$\lambda_D=462-473\text{nm}$ | TBD               |

**Revision History:**

| Description:               | Revision # | Revision Date |
|----------------------------|------------|---------------|
| New Release of QBPP350C-IB | V1.0       | 06/25/2010    |
|                            |            |               |
|                            |            |               |
|                            |            |               |
|                            |            |               |

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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.