

L-7104QBC-D BLUE

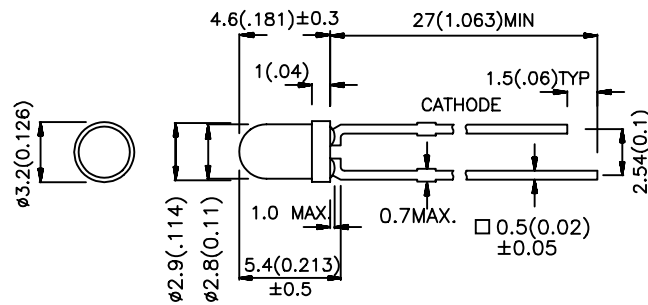
Features

- HIGH INTENSITY.
- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.

Description

The Blue source color devices are made with GaN on Sapphire Light Emitting Diode.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ " unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) @ 20 mA | | Viewing Angle |
|-------------|-----------|-------------|---------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| L-7104QBC-D | BLUE(GaN) | WATER CLEAR | 650 | 1500 | 25 ° |

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at T_A=25°C

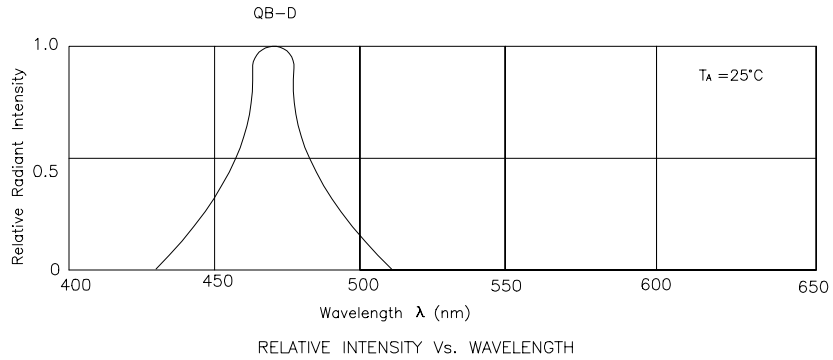
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|-------------------------|--------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Blue | 468 | | nm | IF=20mA |
| λ_D | Dominate Wavelength | Blue | 470 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Halfwidth | Blue | 25 | | nm | IF=20mA |
| C | Capacitance | Blue | 100 | | pF | VF=0V;f=1MHz |
| V _F | Forward Voltage | Blue | 3.5 | 4.0 | V | IF=20mA |
| I _r | Reverse Current | Blue | | 10 | μA | VR = 5V |

Absolute Maximum Ratings at T_A=25°C

| Parameter | Blue | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 180 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



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