

01.02.05.0046

E6C1209RQBC2UDA

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
SENSITIVE DEVICES

Features

- 3.2mmx2.7mm SMT LED, 1.10 mm THICKNESS.
- _ LOW POWER CONSUMPTION.
- _ WIDE VIEWING ANGLE.
- _ IDEAL FOR BACKLIGHT AND INDICATOR.
- _ VARIOUS COLORS AND LENS TYPES AVAILABLE.
- _ PACKAGE : 2000PCS / REEL.
- _ RoHS COMPLIANT.

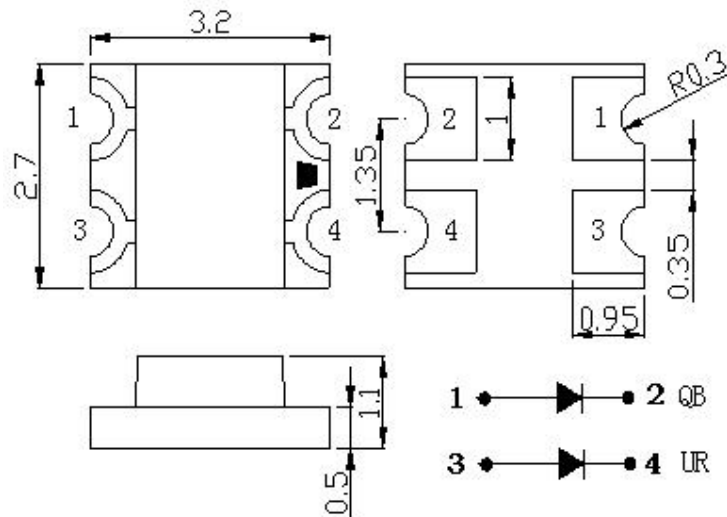
Description

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

The Hyper Orange source color devices are made with DH InGaAlP on GaAs substrate Light Emitting Diode. Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2 θ 1/2
E6C1209RQBC2 UDA	BLUE (GaN)	WATER CLEAR	100	150	120
	RED (InGaAlP)		100	200	

Note:

1. θ 1/2 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

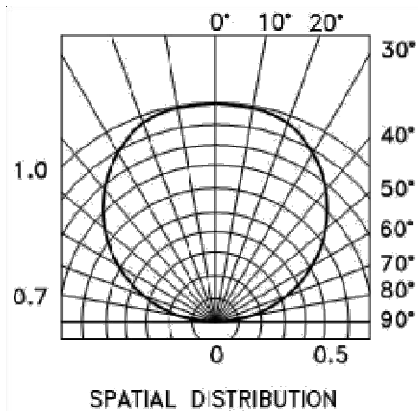
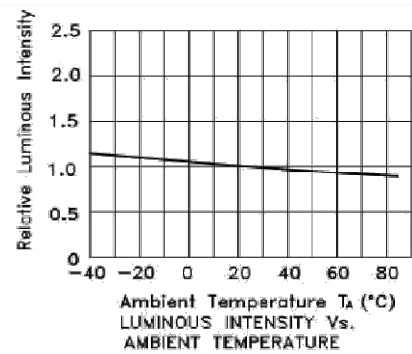
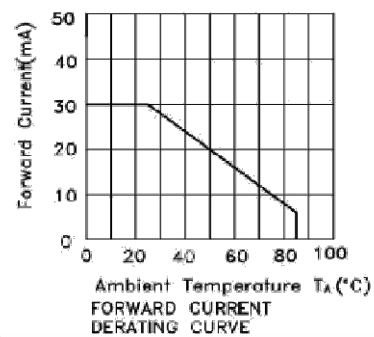
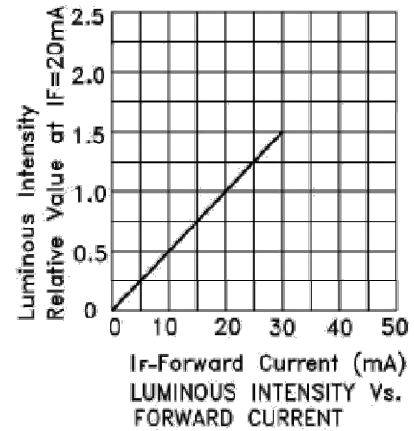
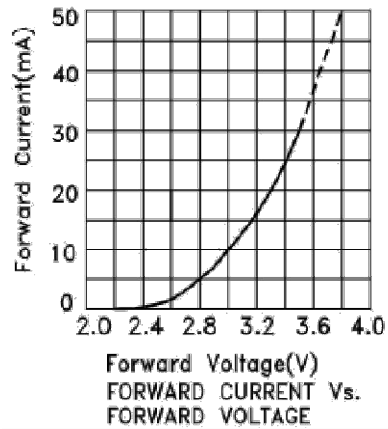
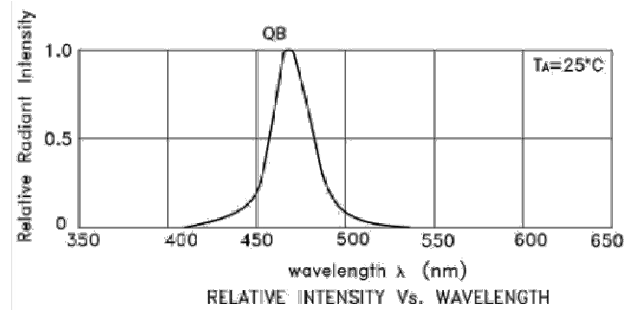
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Blue Red			nm	IF=20mA
λ_D	Dominant Wavelength	Blue Red	466 620	468 625	nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Blue Red	25 20		nm	IF=20mA
C	Capacitance	Blue Red	100 25		pF	VF=0V; f=1MHz
VF	Forward Voltage	Blue Red	3.0 1.9	3.4 2.1	V	IF=20mA
IR	Reverse Current	Blue Red		5 5	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	Blue	Red	Units
Power dissipation	135	75	mW
DC Forward Current	30	30	mA
Peak Forward Current [1]	135	80	mA
Reverse Voltage	5	5	V
Operating/Storage Temperature	-40°C To +85°C		

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



Red

