

Specification

CUSTOMER NAME: _____

DIRECTOR: _____ TITLE: _____

CUSTOMER PART NO.: _____

PART NUMBER: **IE-3215BPG-ST-CE** REVISION: **2.0**

ISSUE DATE: **2015/12/12** RETURN DATE: **/ /**



RoHS COMPLIANT.

Emitting Diode.

Figure 1 shows the dimensions and wiring of the test board. The top part displays two views of the board with dimensions: 3.2, 1.6, 1.6, 0.35, and 1.6. The bottom part shows a side view with dimensions: 2, 0.3, 0.9, and 0.2. The wiring diagram indicates four pins (1, 2, 3, 4) with blue and red connections.

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004")$ 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
IE-3215BPG-ST-CE	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	464 620	472 625	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	V _F =0V;f=1MHz
V _F	Forward Voltage	Blue Red	3.0 1.9	3.4 2.1	V	IF=20mA
I _R	Reverse Current	Blue Red		2 2	uA	V _R = 5V

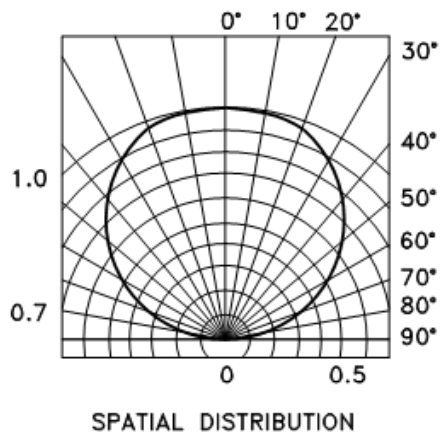
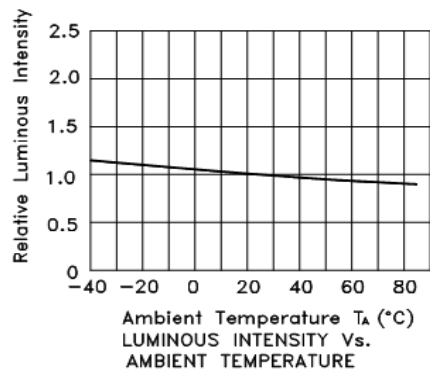
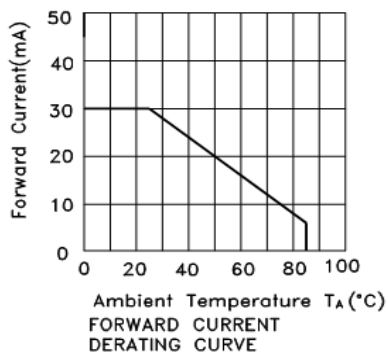
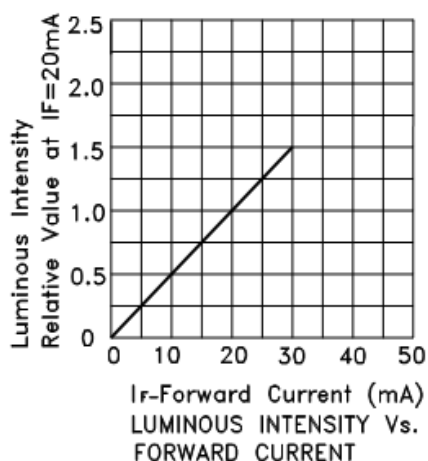
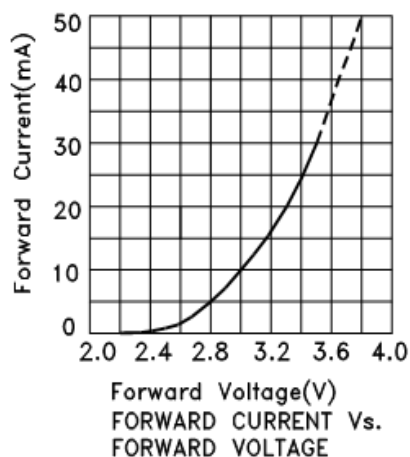
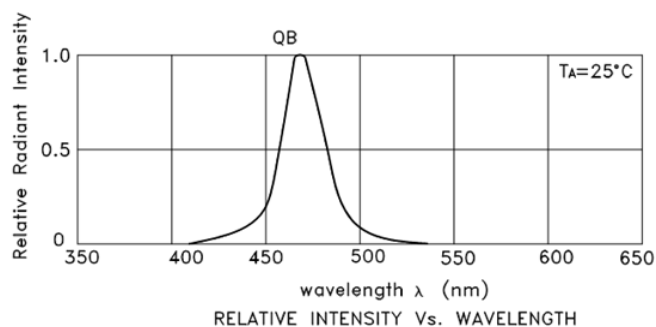
Absolute Maximum Ratings at T_A=25°C

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		

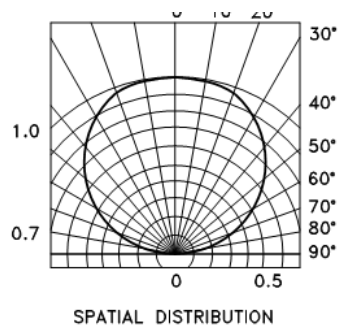
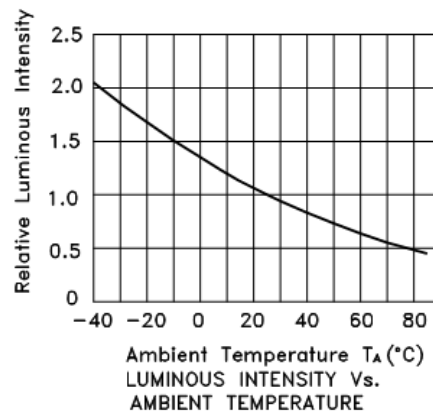
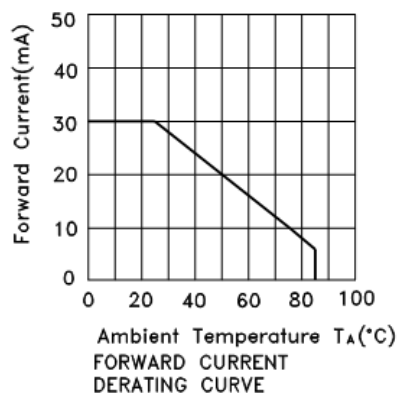
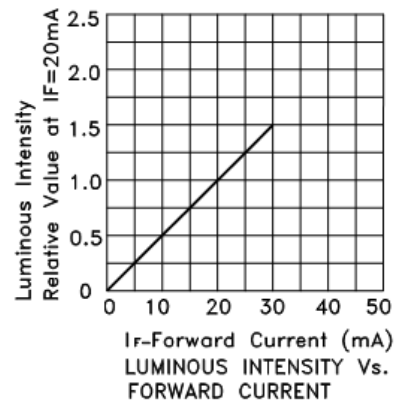
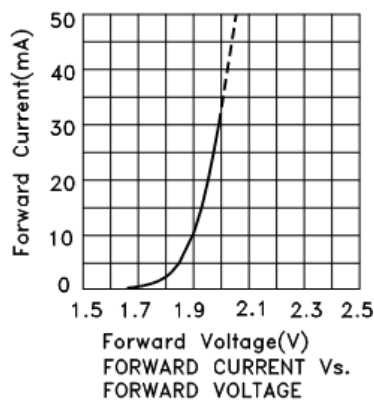
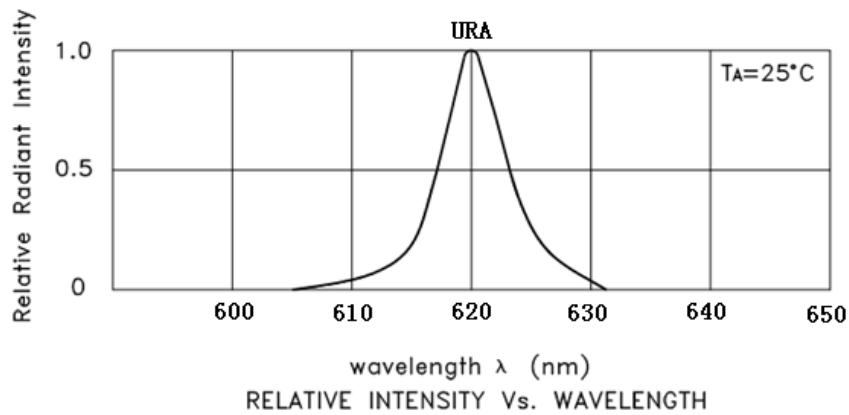
Note:

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

Blue

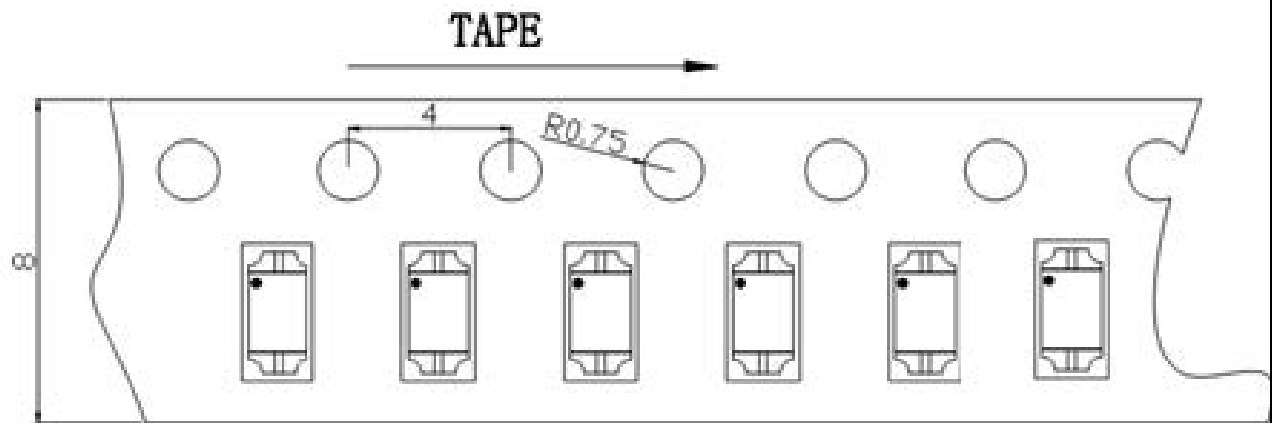


Red



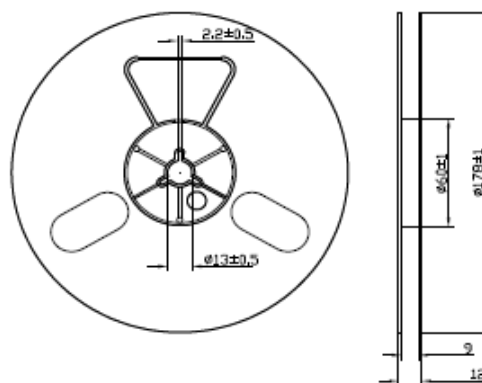
PACKAGING

The LEDs are packed in cardboard boxes after taping.

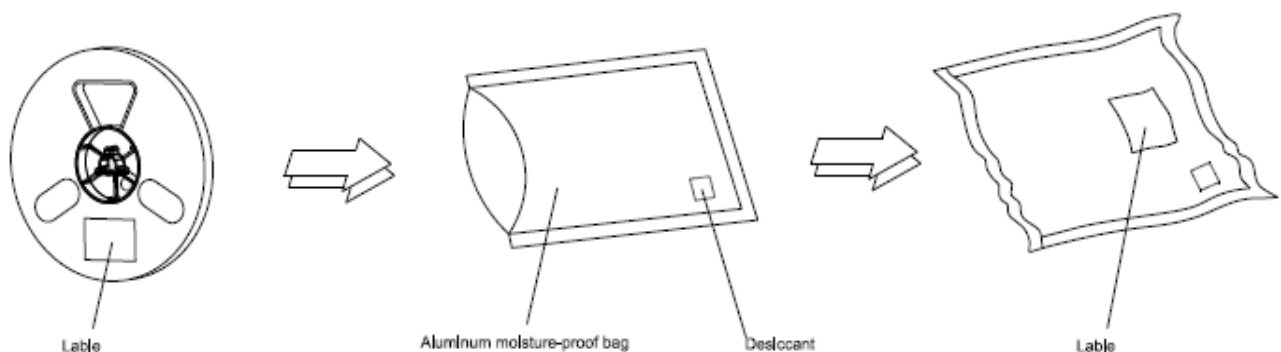


Package: 3000 pcs/reel

Reel Dimensions



Moisture Resistant Packaging



Note: The tolerances unless mentioned is $\pm 0.1\text{mm}$, Unit: mm