

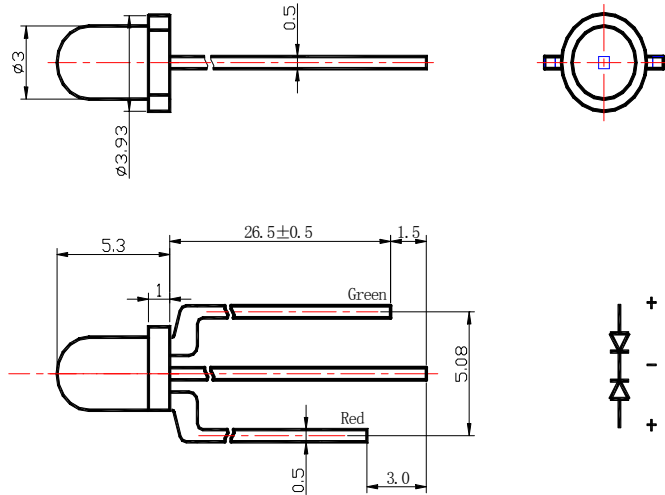
### Product Features

- Ultra Bright Bi-color Red/Green
- High Light Output
- 3mm Diameter Circular Package
- Water Clear Lens
- Highly Reliable
- IC Compatible
- Leads without Stand Off

### Applications

- Automotive
- Front Panel Indicator
- Special Lighting
- General Purpose LEDs

### Package Dimension



Tolerance:  $\pm \frac{\text{inch}}{\text{mm}}$  Unit:  $\pm \frac{0.01}{0.25}$



#### WARNING

This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.

**Note:** Industry standard procedures regarding static must be observed when handling this product.

### Optical and Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Minimum	Typical	Maximum	Units	Conditions	
Luminous Intensity	$I_v$	Green	—	350	—	mcd	
		Red	—	100	—		
Viewing Angle	$2\theta_{1/2}$	—	30	—	deg	$I_F = 20\text{mA}$	
Dominant Wavelength	$\lambda_D$	YG	620	—	630		nm
		Red	570	—	575		
DC Forward Voltage	$V_F$	YG	1.9	—	2.5	V	
		Red	1.8	—	2.5		
DC Reverse Current	$I_R$	0	—	10	$\mu\text{A}$	$V_R=5\text{V}$	

#### Notes:

1. Light intensity measures the light sensing response standard using chromatic meter. Refer to the CIE eye-response curve set by International Lighting committee. Tolerance of minimum and maximum intensity =  $\pm 15\%$
2. Wavelength range can be selected from the bin selection table. Tolerance of minimum and maximum =  $\pm 2\text{nm}$
3. These products are sensitive to static electricity and care must be fully taken when handling products



# BI-COLOR LED

## BTL-32NRYGC

Absolute Maximum Ratings at  $T_a=25^{\circ}\text{C}$

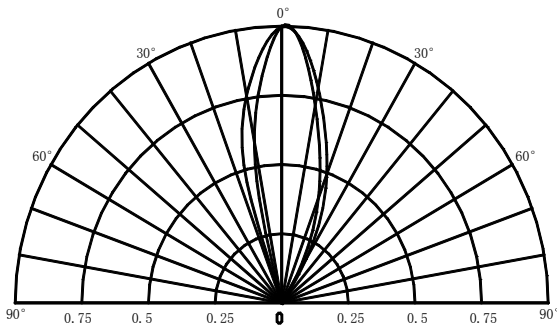
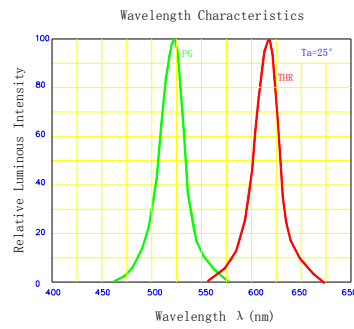
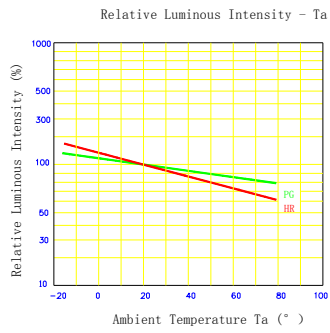
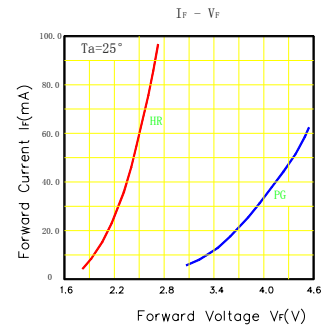
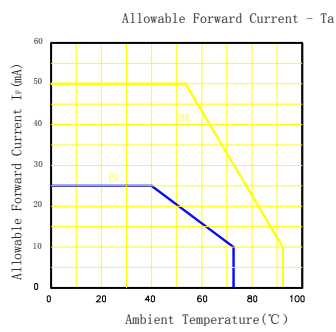
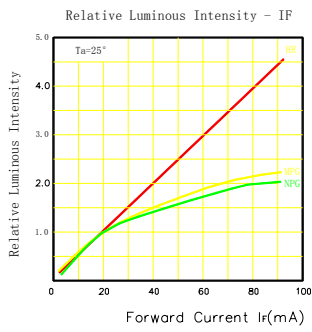
Symbol	Parameter	Max.	Unit
$P_D$	Power Rating	100	mW
$V_R$	Reverse Voltage ( $I_R=10\mu\text{A}$ )	5	V
$I_F$	Continuous Forward Current	30	mA
$I_{FP}$	Peak Forward Current (0.1 duty cycle @ 1kHz)	50	mA
	Derating Linear from $50^{\circ}\text{C}$	0.4	mA/ $^{\circ}\text{C}$
$T_{opr}$	Operating Temperature Range	$-35 \sim + 80$	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	$-40 \sim + 100$	$^{\circ}\text{C}$
Lead Soldering Temperature [1.6mm (0.063inch) from body]		260 $^{\circ}\text{C}$ - max 5 seconds	

### Packaging Options

Standard: 1000 pc bulk pack

Optional: Tape and Reel (Please specify when order)

### Typical Electro-Optical Characteristics Curves at $T_a=25^\circ\text{C}$



BT-Rev. 1.0a  
Specifications are subject to change without notice.  
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