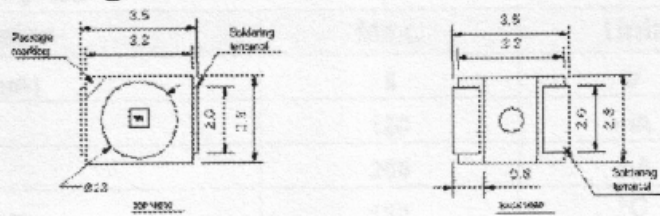


Product Features

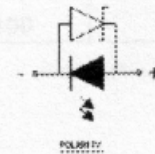
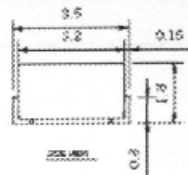
- Ultra Bright Blue Color
- Smallest Foot Print Power LED
- Chip Material: InGaN
- Medium Power Output
- 3.5X2.8mm SMD Package
- Water Clear Lens
- Highly Reliable
- Zener Diode Protected

Package Dimension



Applications

- Indoor Full Color Display
- Automotive
- Front Panel Indicator
- General Purpose LEDs



Unit: mm

Unit: mm



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	800	1050	—	mcd	$I_F = 150\text{mA}$ (Note 1) (Note 2)
Viewing Angle	$2\theta_{1/2}$	—	120	—	deg	
Dominant Wavelength	λ_D	460	465	475	nm	
DC Forward Voltage	V_F	3.0		4.0	V	
DC Reverse Current	I_R	0	—	10	μA	$V_R=5\text{V}$

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



MEDIUM POWER SMD LED

BTE-328BLC-XX-X

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

Symbol	Parameter	Max.	Unit
V_R	Reverse Voltage ($I_R=10\mu\text{A}$)	5	V
I_F	DC Forward Current	120	mA
I_{FP}	Peak Forward Current	200	mA
T_j	LED Junction Temperature	120	$^{\circ}\text{C}$
T_{opr}	Operating Temperature Range	-25 ~ + 80	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-30 ~ + 100	$^{\circ}\text{C}$

Wavelength and Brightness Selection

BTE-328BLC-XX-X

Wavelength Bin Selection

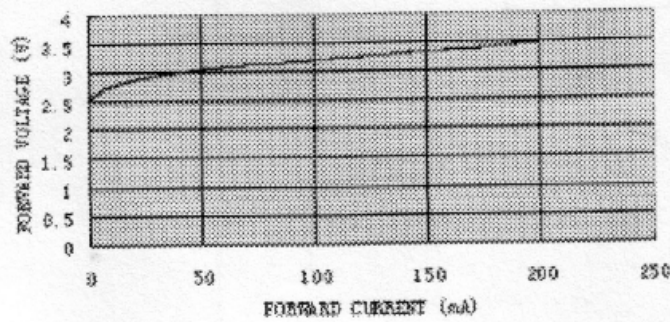
Bin	Blue (nm)
B5	460~465
B6	465~470
B7	470~475
XX	460~475

Brightness Bin Selection

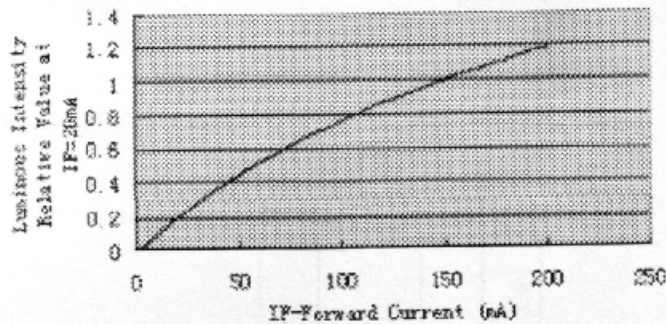
Bin	Range(mcd)
N	880~1140
O	1140~1485

Typical Electro-Optical Characteristics Curves

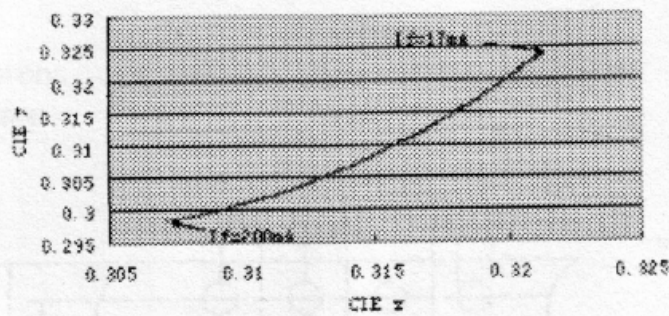
I-V (FORWARD CURRENT VS FORWARD VOLTAGE)



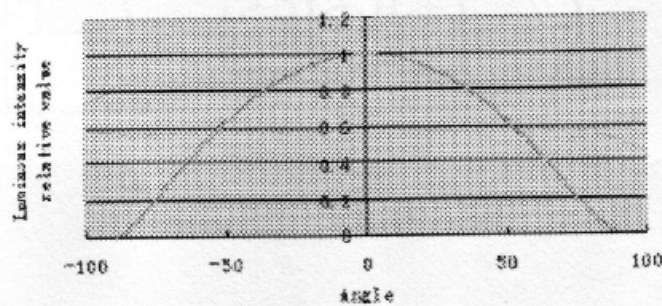
I-I_v (LUMINOUS INTENSITY FORWARD CURRENT)



CIE(x, y) Vs. forward current

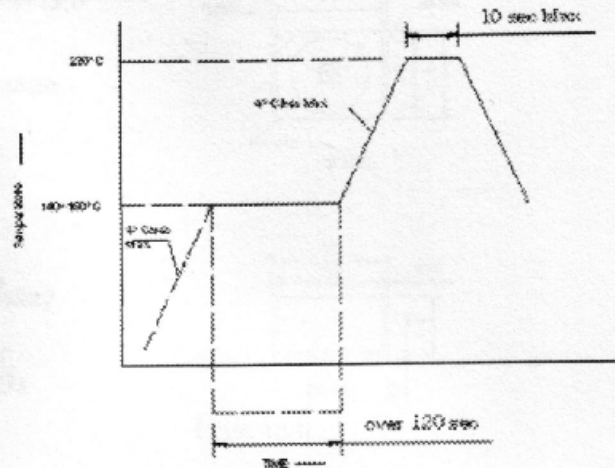


Angle View



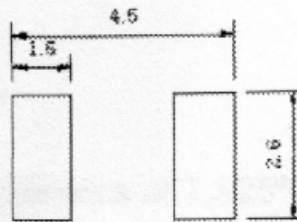
SMT Reflow Soldering Instruction

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



Recommended Soldering Pattern

(Units: mm)



SOLDER PAD

Tape Specifications

PACKAGE: 2000PCS/REEL

(Units: mm)

