

# LNJ03004BND1

## Surface Mounting Chip LED

3230 Type

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

Parameter	Symbol	Rating	Unit
Power dissipation	$P_D$	430	mW
Forward current* <sup>1</sup>	$I_F$	120	mA
Pulse forward current* <sup>2</sup>	$I_{FP}$	200	mA
Junction temperature	$T_j$	110	$^\circ\text{C}$
Operating ambient temperature	$T_{opr}$	-30 to +85	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$

### Lighting Color

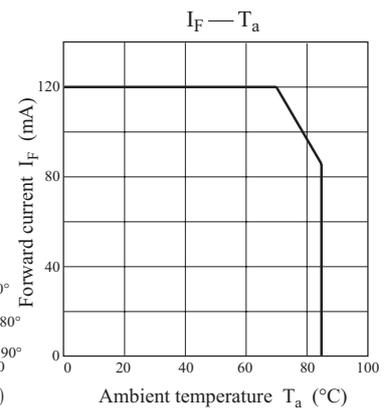
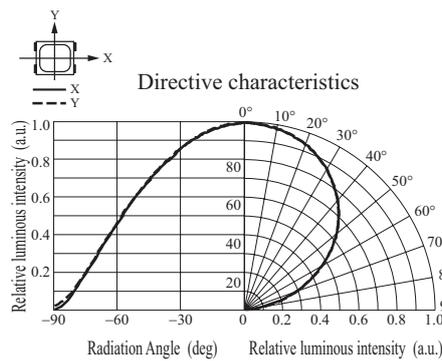
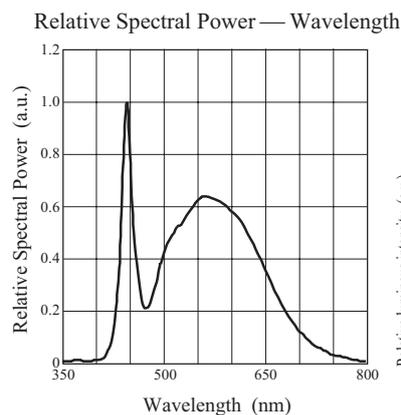
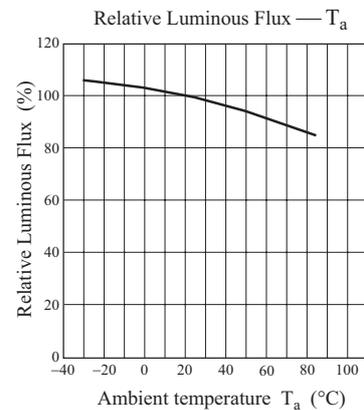
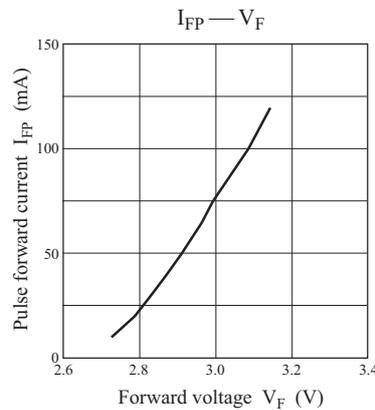
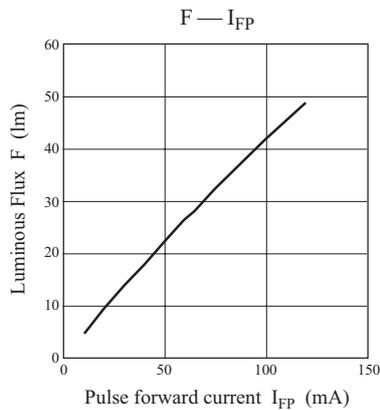
- White (5000 [Kelvin])

Note) \*1:  $I_F$  is different by radiated factor of evaluation board.  
This value is mounted on evaluation board at  $R_{th-j-a} = 25.0^\circ\text{C/W}$ .  
\*2: The condition of pulse current  $I_{FP}$  is 55 ms pulse width, 10 % duty.

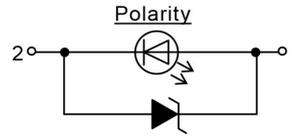
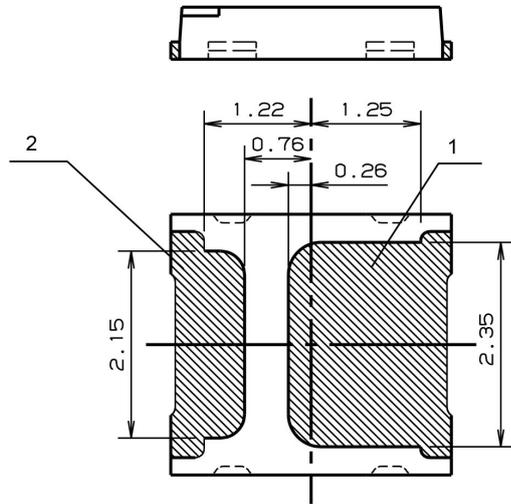
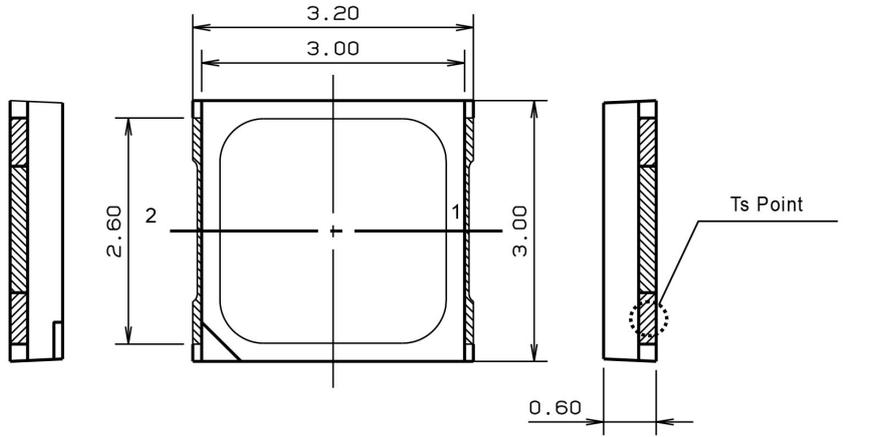
### Electro-Optical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage* <sup>1</sup>	$V_F$	$I_{FP} = 60\text{ mA}$	2.7	2.95	3.2	V
Luminous flux* <sup>2</sup>	F	$I_{FP} = 60\text{ mA}$	22.0	26.5	30.0	lm
Chromaticity coordinates* <sup>3</sup>	x	$I_{FP} = 60\text{ mA}$		0.345		—
	y	$I_{FP} = 60\text{ mA}$		0.355		—
Color Rendering Index	Ra	$I_{FP} = 60\text{ mA}$		82		—

Note) \*1: Complete Forward Voltage measurement within 0.1 seconds. Tolerance  $\pm 3\%$   
\*2: Complete Luminous flux measurement within 0.1 seconds. Tolerance  $\pm 10\%$   
\*3: Complete Chromaticity coordinates measurement within 0.1 seconds. Tolerance of chromaticity is  $\pm 0.01$



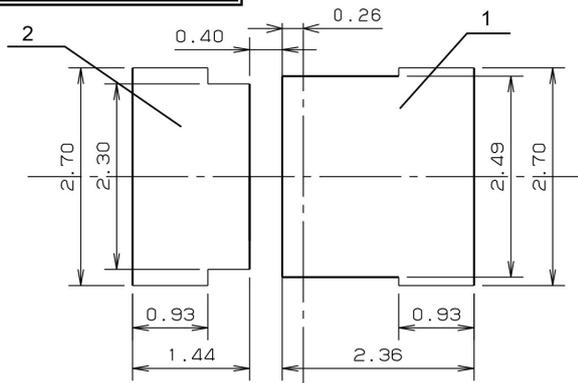
■ Package (Unit: mm)



1. Anode  
2. Cathode

Item	Contents
Terminal Process	Cu + Ag Plate
Mold Material	Silicone Resin
Package Material	Polymer Base Reflection case

Reference Land Layout



(Note1) Tolerance unless otherwise specified : ±0.2mm

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