

# LNJ8L6C18RA

## High Bright Surface Mounting Chip LED

3533 Type

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

Parameter	Symbol	Rating	Unit
Power dissipation	$P_D$	550	mW
Forward current	$I_F$	200	mA
Pulse forward current *	$I_{FP}$	700	mA
Reverse voltage	$V_R$	5	V
Junction temperature	$T_j$	125	$^\circ\text{C}$
Thermal resistance	$R_{th}$	140	$^\circ\text{C}/\text{W}$
Operating ambient temperature	$T_{opr}$	-40 to +105	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +125	$^\circ\text{C}$

### Lighting Color

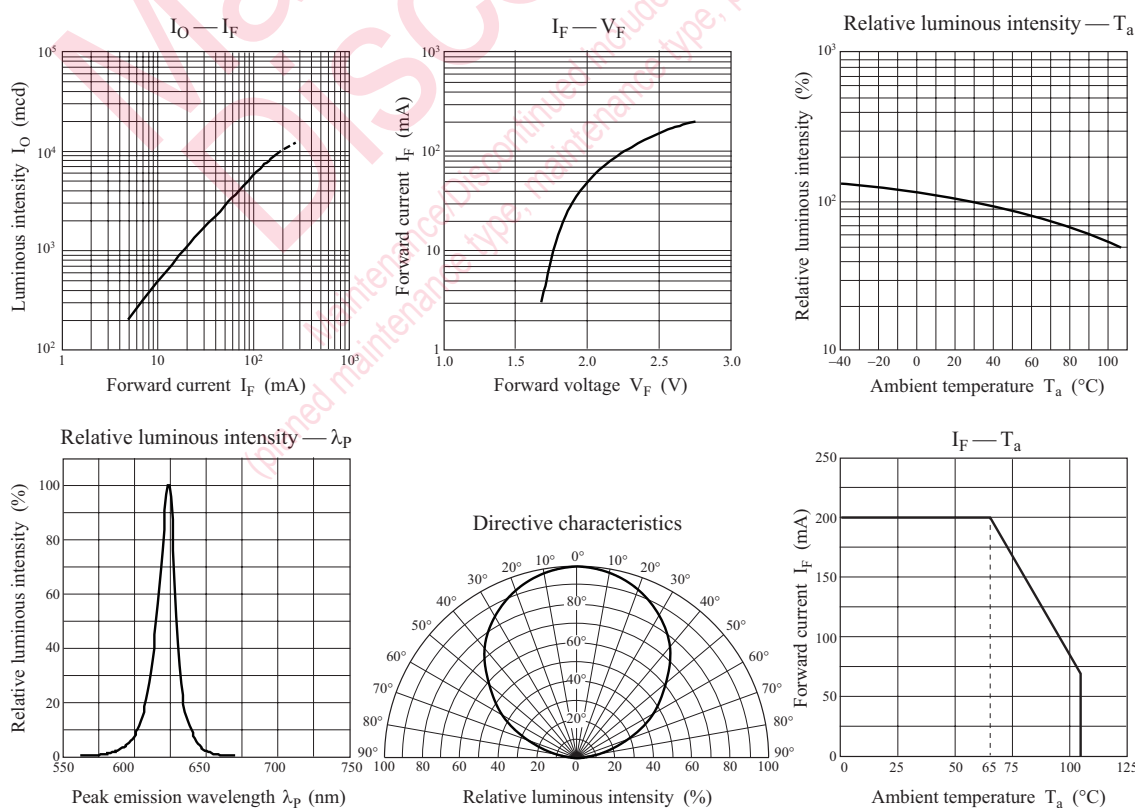
- Red

Note) \*: The condition of  $I_{FP}$  is duty 10%, Pulse width 1 msec.

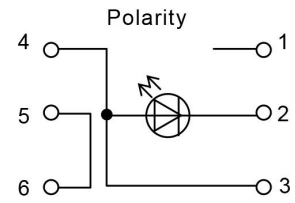
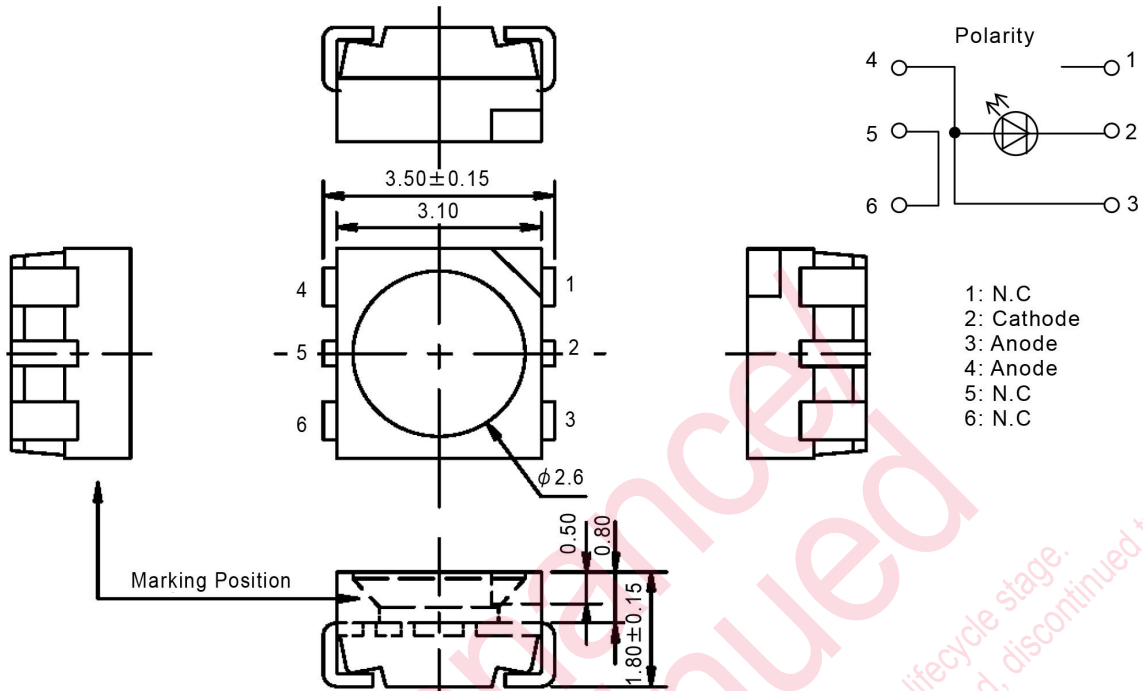
### Electro-Optical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Luminous intensity *1	$I_O$	$I_F = 140 \text{ mA}$	5600	7600	11200	mcd
Reverse current	$I_R$	$V_R = 5 \text{ V}$			10	$\mu\text{A}$
Forward voltage *2	$V_F$	$I_F = 140 \text{ mA}$	2.05	2.45	2.65	V
Peak emission wavelength	$\lambda_p$	$I_F = 140 \text{ mA}$		623		nm
Dominant emission wavelength *3	$\lambda_d$	$I_F = 140 \text{ mA}$	612	614	624	nm
Spectral half band width	$\Delta\lambda$	$I_F = 140 \text{ mA}$		20		nm

Note) \*1: Measurement tolerance:  $\pm 11\%$   
 \*2: Measurement tolerance:  $\pm 0.15 \text{ V}$   
 \*3: Measurement tolerance:  $\pm 2 \text{ nm}$



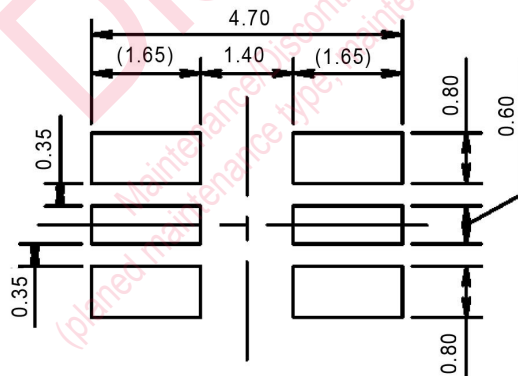
■ Package (Unit: mm)



- 1: N.C
- 2: Cathode
- 3: Anode
- 4: Anode
- 5: N.C
- 6: N.C

Marking Position

Recommended Land Layout



Item	Contents
Terminal Material	The Cu System
Terminal Process	Ni + Au Plate
Package Material	Polymer Base Reflection case
Mold Material	Silicone Resin

(Note1) Tolerance unless specified:  $\pm 0.1$  mm.

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