



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LNJ447W84RA1

High Bright Surface Mounting Chip LED

1005 Type

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

Parameter	Symbol	Rating	Unit
Power dissipation	P_D	55	mW
Forward current	I_F	20	mA
Pulse forward current *	I_{FP}	60	mA
Reverse voltage	V_R	4	V
Operating ambient temperature	T_{opr}	-30 to +85	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 to +100	$^\circ\text{C}$

Lighting Color

- Amber

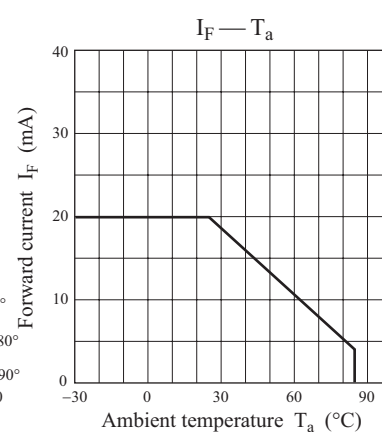
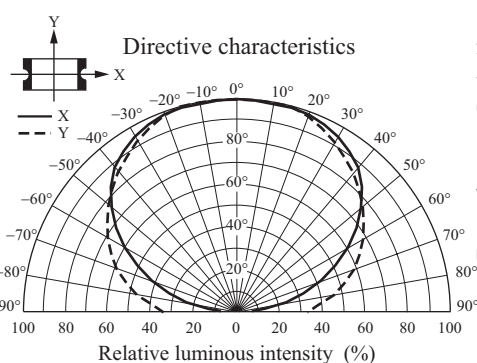
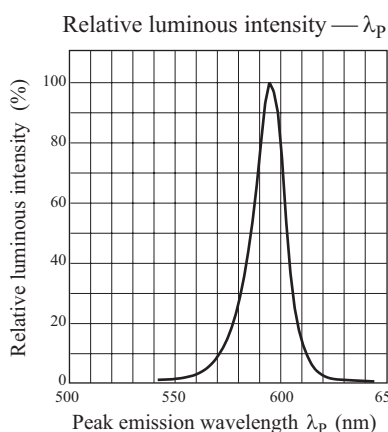
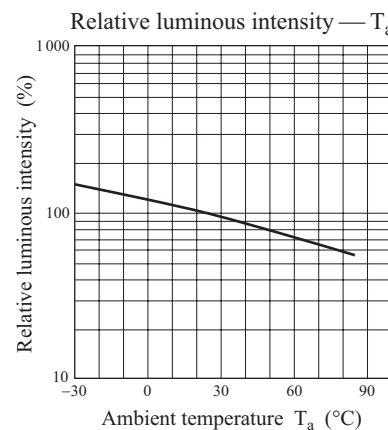
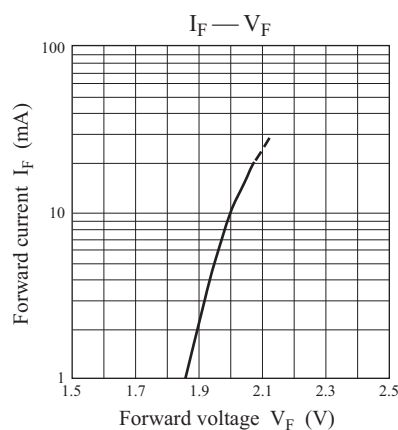
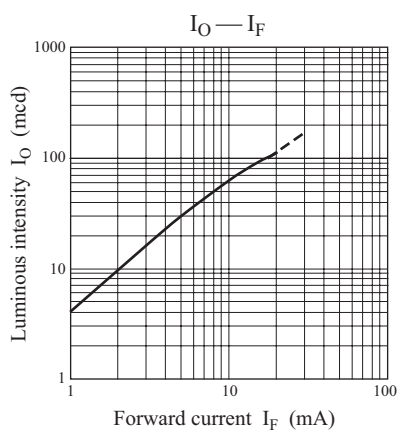
Note) *: The condition of I_{FP} is duty 10%, Pulse width 1 msec.

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

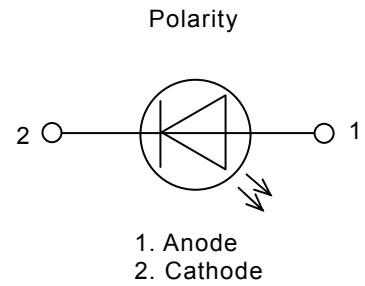
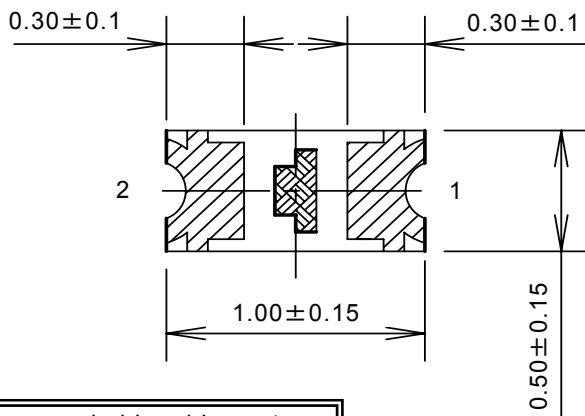
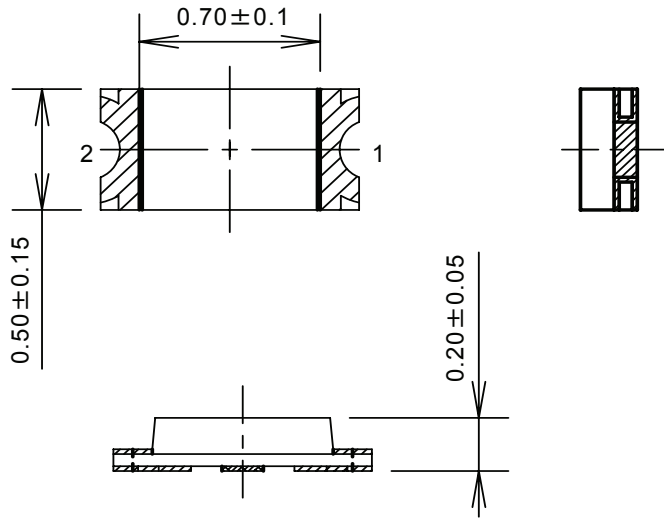
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Luminous intensity *1	I_O	$I_F = 5 \text{ mA}$	19.5	30.0	52.4	mcd
Reverse current	I_R	$V_R = 4 \text{ V}$			100	μA
Forward voltage	V_F	$I_F = 5 \text{ mA}$		1.95	2.30	V
Peak emission wavelength	λ_p	$I_F = 5 \text{ mA}$		595		nm
Dominant emission wavelength *2	λ_d	$I_F = 5 \text{ mA}$	587	590	597	nm
Spectral half band width	$\Delta\lambda$	$I_F = 5 \text{ mA}$		15		nm

Note) *1: Measurement tolerance: $\pm 20\%$

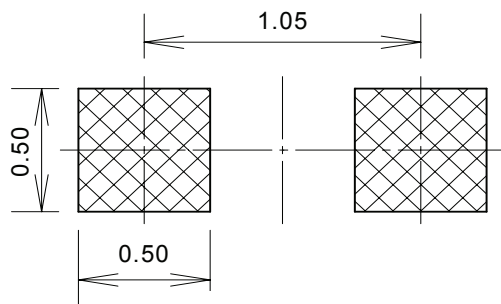
*2: Measurement tolerance: $\pm 2 \text{ nm}$



■ Package (Unit: mm)



Recommended Land Layout



(Note1) Electrode projection is not included in the package dimensions.

(Note2) About solder thickness, please examine the products yourself completely.

(Recommended thickness : $t=0.10$ mm ~ 0.15 mm)

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