Lighting ColorPure GreenRed

LNJ167W87RA

Surface Mounting Chip LED

ESS Type

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

• Pure Green	
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Parameter	Symbol Rating		Unit
Power dissipation	P _D	75	mW
Forward current	I _F	20	mA
Pulse forward current *	I _{FP}	70	mA
Reverse voltage	V _R	5	V
Operating ambient temperature	T _{opr}	-30 to +85	°C
Storage temperature	T _{stg}	-40 to +100	°C

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

• Red

Parameter	Symbol	Rating	Unit
Power dissipation	PD	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	°C
Storage temperature	T _{stg}	-40 to +100	°C

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

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

• Pure Green

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	Io	$I_F = 5 \text{ mA}$	18.0	90.0	180.0	mcd
Forward current	IR S	$V_R = 5 V$			100	μΑ
Forward voltage	$V_{\rm F}$	$I_F = 5 \text{ mA}$		3.0	3.3	V
Peak emission wavelength	$\lambda_{\rm P}$	$I_F = 5 \text{ mA}$		520		nm
Dominant emission wavelength *2	λ_d	$I_F = 5 \text{ mA}$	518	525	533	nm
Spectral half band width	Δλ	$I_F = 5 \text{ mA}$		40		nm

Note) *1: Measurement tolerance: ±20%

*2: Measurement tolerance: ±3 nm

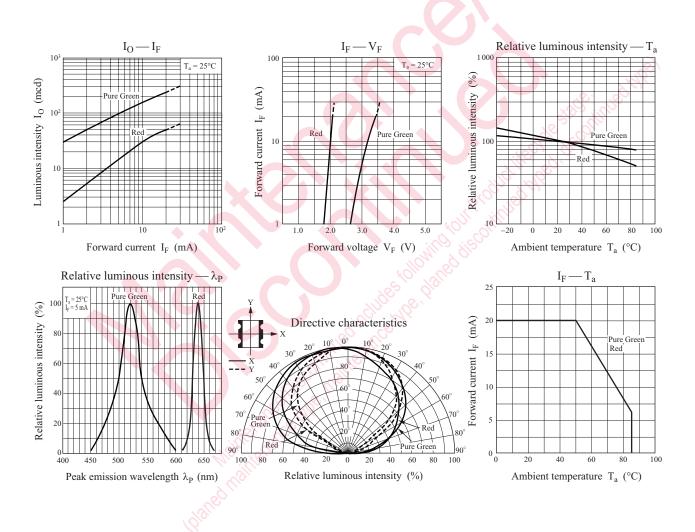
Electro-Optical Characteristics (Continued) $T_a = 25^{\circ}C \pm 3^{\circ}C$

• Red

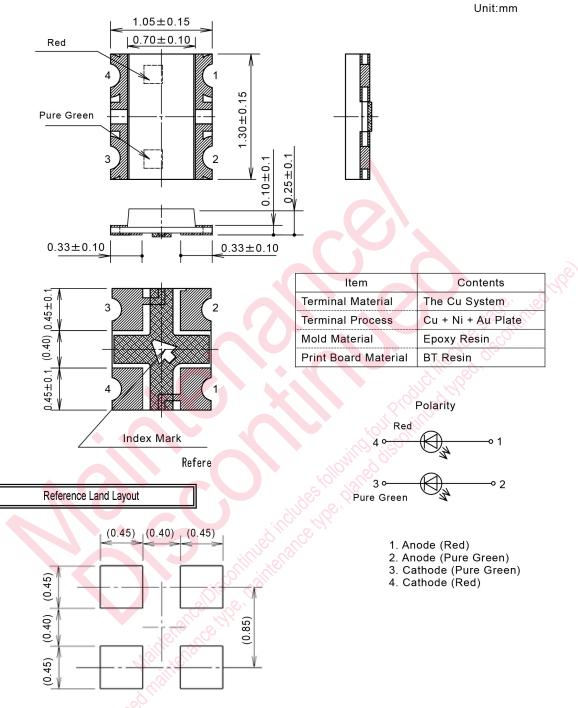
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	I _O	$I_{\rm F} = 5 {\rm mA}$	11.0	15.0	52.0	mcd
Reverse current	I _R	$V_R = 4 V$			100	μΑ
Forward voltage	V _F	$I_{\rm F} = 5 {\rm mA}$		1.95	2.30	V
Peak emission wavelength	$\lambda_{\rm P}$	$I_{\rm F} = 5 {\rm mA}$		638		nm
Dominant emission wavelength *2	λ _d	$I_{\rm F} = 5 {\rm mA}$	615	628	634	nm
Spectral half band width	Δλ	$I_{\rm F} = 5 {\rm mA}$		20		nm

Note) *1: Measurement tolerance: ±20%

*2: Measurement tolerance: ±3 nm



Package (Unit: mm)



(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) (Note3)Do not install the pattern of the printed wiring board under LED.

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