LNJ757W86RA

High Bright Surface Mounting Chip LED

ESS Type

■ Absolute Maximum Ratings $T_a = 25$ °C

• Pure Green

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.

• Blue

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	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	°C	
Storage temperature	T _{stg}	-40 to +100	°C	

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

■ Lighting Color

- Pure Green
- Blue
- Red

■ Electro-Optical Characteristics $T_a = 25$ °C±3°C

• Pure Green

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	I _O	$I_F = 5 \text{ mA}$	20	90	180	mcd
Forward current	I_R	$V_R = 5 V$			100	μΑ
Forward voltage	V_{F}	$I_F = 5 \text{ mA}$		3.0	3.3	V
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 5 \text{ mA}$		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

• Blue

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	I _O	$I_F = 5 \text{ mA}$	7	15	25	mcd
Reverse current	I_R	$V_R = 5 V$			100	μΑ
Forward voltage	V _F	$I_F = 5 \text{ mA}$		2.95	3.30	V
Peak emission wavelength	λ_{P}	$I_F = 5 \text{ mA}$		462		nm
Dominant emission wavelength *2	λ_{d}	$I_F = 5 \text{ mA}$	465	470	474	nm
Spectral half band width	Δλ	$I_F = 5 \text{ mA}$		30		nm

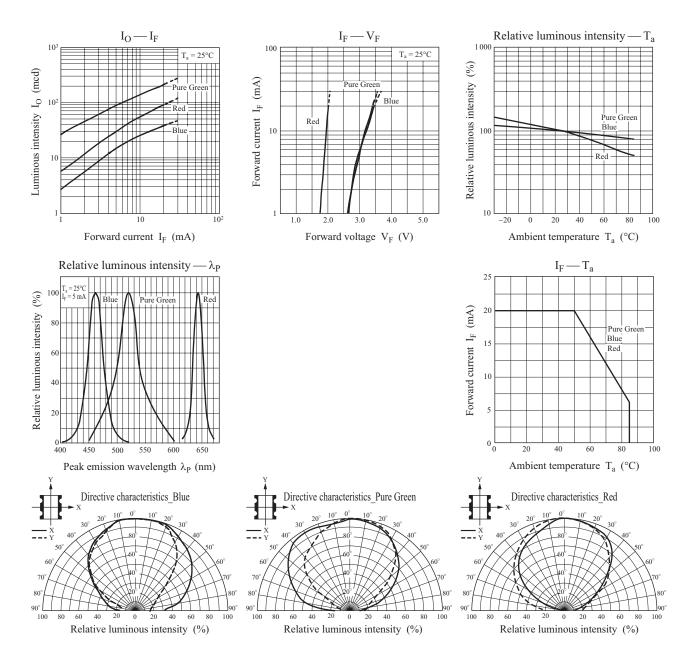
Note) *1: Measurement tolerance: ±20% *2: Measurement tolerance: ±3 nm

• Red

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	I _O	$I_F = 5 \text{ mA}$	15	30	45	mcd
Reverse current	I_R	$V_R = 4 V$			100	μΑ
Forward voltage	V_{F}	$I_F = 5 \text{ mA}$		1.9	2.3	V
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 5 \text{ mA}$		643		nm
Dominant emission wavelength *2	λ_{d}	$I_F = 5 \text{ mA}$	621	628	634	nm
Spectral half band width	Δλ	$I_F = 5 \text{ mA}$		20		nm

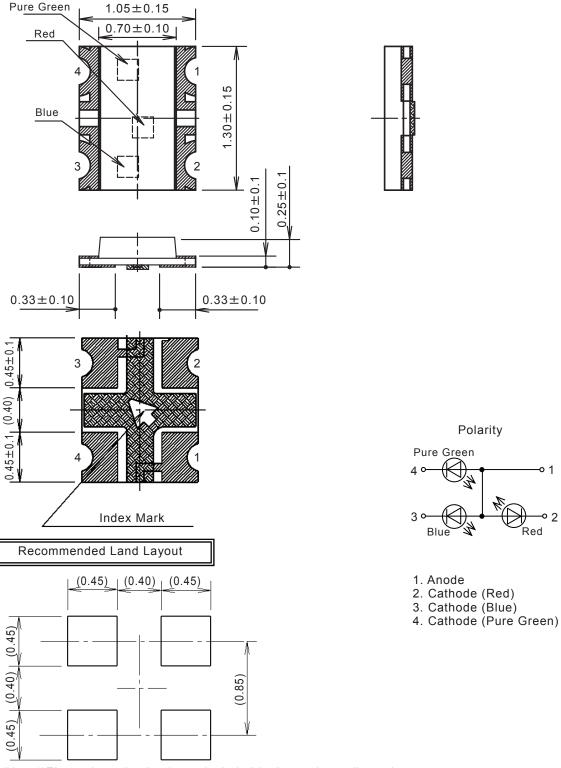
Note) *1: Measurement tolerance: ±20% *2: Measurement tolerance: ±3 nm

Ver. BEK 2



Ver. BEK 3

■ 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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