

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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LNJ167W87RA

Surface Mounting Chip LED

ESS Type

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

• 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.

• 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.

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

• Pure Green

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	I _O	$I_F = 5 \text{ mA}$	18.0	90.0	180.0	med
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

■ Lighting Color

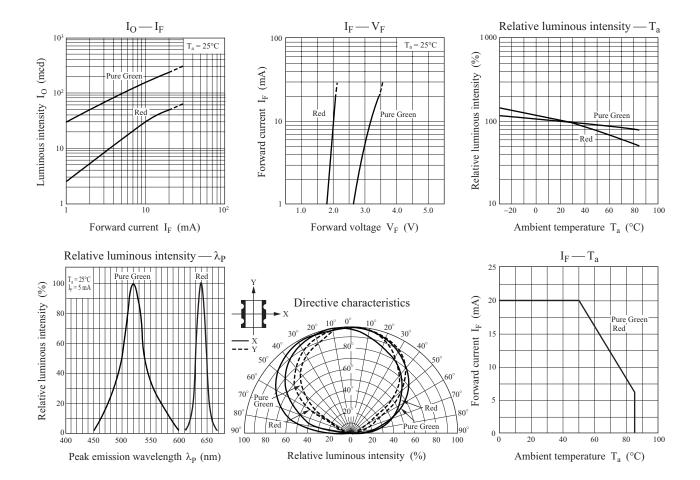
- Pure Green
- Red

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

• Red

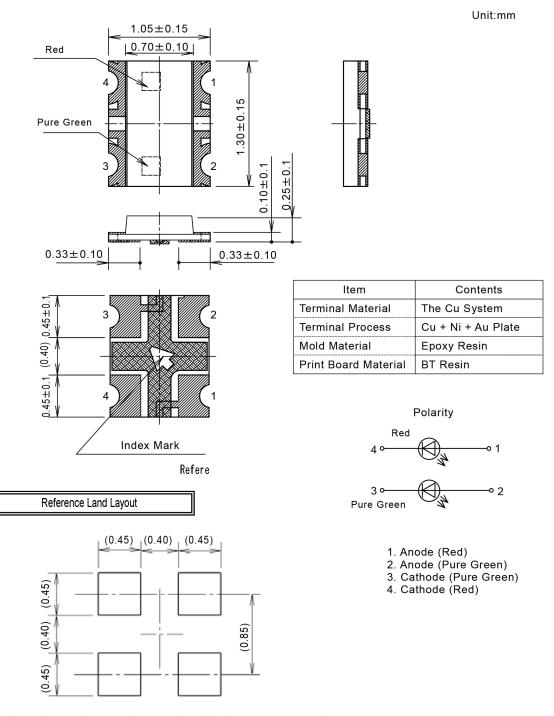
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Luminous intensity *1	I _O	$I_F = 5 \text{ mA}$	11.0	15.0	52.0	mcd
Reverse current	I_R	$V_R = 4 V$			100	μА
Forward voltage	V_{F}	$I_F = 5 \text{ mA}$		1.95	2.30	V
Peak emission wavelength	$\lambda_{ m P}$	$I_F = 5 \text{ mA}$		638		nm
Dominant emission wavelength *2	λ_{d}	$I_F = 5 \text{ mA}$	615	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. AEK 2

■ 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.

Ver. AEK 3

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