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開発仕様 / DEVELOPMENT SPECIFICATION  品番 / Product Number <u>L N J 4 2 6 W 8 3 R A</u>	Designed By	Checked By	Approved By
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**開 発 仕 様  
DEVELOPMENT SPECIFICATION**

品 番 / PRODUCT NUMBER L N J 4 2 6 W 8 3 R A

品 名 / PRODUCT NAME Ultra Super Small type chip LED

発 行 / PUBLISH Nov.26.2005

この資料は技術検討用参考資料ですので規格および保証を意味するものではありません。  
納入仕様書、承認図に記載された内容のみが有効です。  
This document is " Target Specifications ", so it may be revised a part of it as time of establishment of " Regular Specifications ".

Nov.26.2005	<i>Dec.5, 2005</i>		

開発仕様 / DEVELOPMENT SPECIFICATION  
 品番 / Product Number L N J 4 2 6 W 8 3 R A

種別 / TYPE	アンバー発光ダイオード / Amber Light Emitting Diode					
材質 / MATERIAL	InGaAlP					
用途 / APPLICATION	各種表示用 / Indicators					
外形 / OUTLINE	附図 / Attached					
絶対最大定格 ABSOLUTE MAXIMUM RATINGS	P 消費電力 40 mW	*1 I <sub>FP</sub> パルス順方向電流 40 mA	I <sub>FDC</sub> 順方向電流 15 mA	V <sub>R</sub> 逆方向電圧 4 V	T <sub>opr</sub> 動作周囲温度 -30~+85 °C	T <sub>stg</sub> 保存温度 -40~+100 °C
試験条件 / CONDITION	T <sub>a</sub> = 25 ± 3 °C					

光学的・電気的特性 / Optical Electrical Specification

項目 Item	略号 Symbol	条件 Condition	標準値 Type	許容値 / Limit		単位 Unit
				Min.	Max.	
順方向電圧降下 Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA DC	2.05		2.5	V
逆方向漏洩電流 Reverse leakage Current	I <sub>R</sub>	V <sub>R</sub> = 4 V			100	μA
光度(軸上) *2 Luminous Intensity	I <sub>O</sub>	I <sub>F</sub> = 10 mA DC	35.0	12.0	102.0	mcd
ピーク発光波長 Peak Emission Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 10 mA DC	595			nm
ドミナント発光波長 Dominant Wavelength *3	λ <sub>d</sub>	I <sub>F</sub> = 10 mA DC	589	582	593	nm
スペクトル半値幅 Spectral Line Half Width	Δλ	I <sub>F</sub> = 10 mA DC	15			nm

\*1 I<sub>FP</sub>の条件は、デューティ比 10%、パルス幅 1 ms.

The condition of pulse current I<sub>FP</sub> is 1 ms pulse width, 10 % duty cycle.

DC=1 mA 以下および、印加時間 Pw=1 ms、Duty=10% 未満の特別仕様並びに疑問点につきましてはお問い合わせの程願います。

Please contact us for further information regarding special operating conditions such as

If : less than DC = 1 mA , Pulse condition : less than pulse width = 1 ms , duty = 10 %

\*2 光度ランクについて

Rank classification of luminous intensity.

	I <sub>F</sub> =10mA
1 ランク	12.0~20.4
2 ランク	20.4~35.0
3 ランク	35.0~60.0
4 ランク	60.0~102.0
Unit	mcd

\*3 波長ランクについて

Rank classification of dominant wavelength.

	I <sub>F</sub> =10mA
A ランク	585.0~588.0
B ランク	588.0~591.0
C ランク	591.0~596.0
Unit	nm

測定公差 : ±20%

Measurement tolerance : ±20%

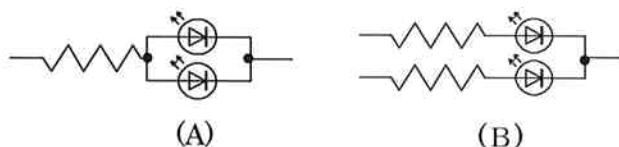
測定公差 : 3nm

Measurement tolerance : ±3nm

【注意/Note】

(1) 静電気による製品破壊にご注意下さい。 / Beware of destruction by static electricity in handling the LED.

(2) 回路設計上の注意 / Circuit to operate LED.



(A)の回路についてはV<sub>F</sub>の影響により光度バラツキが懸念されますので(B)の回路を推奨致します。

(A)The difference of brightness between the LED could be found due to the V<sub>F</sub> characteristics of each LED.

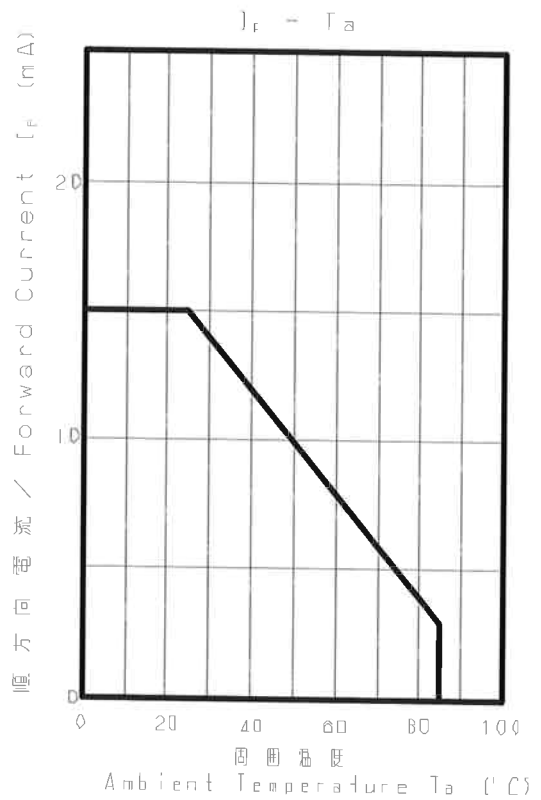
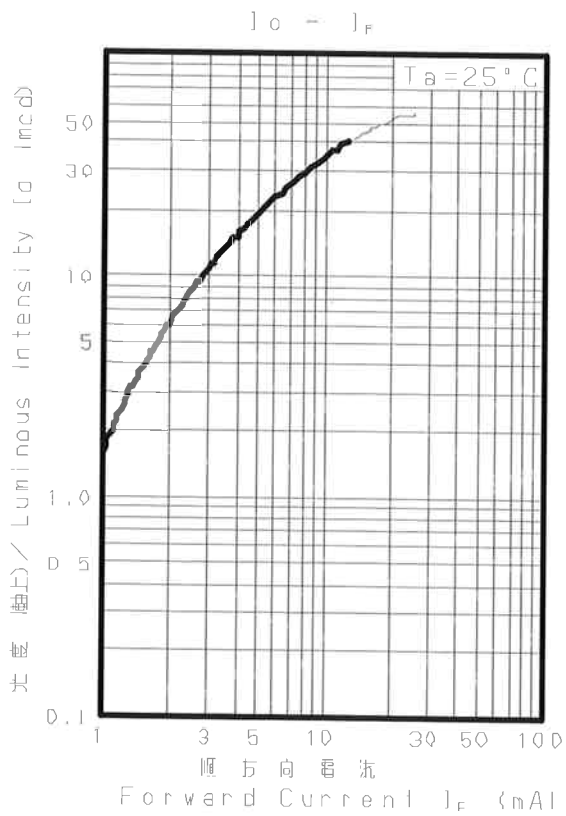
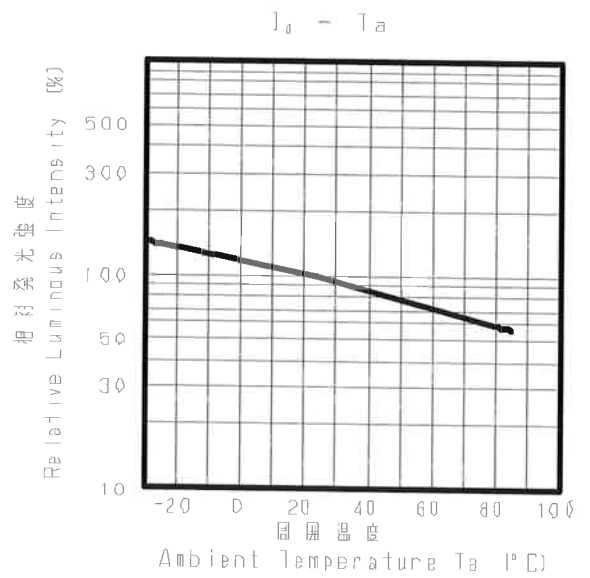
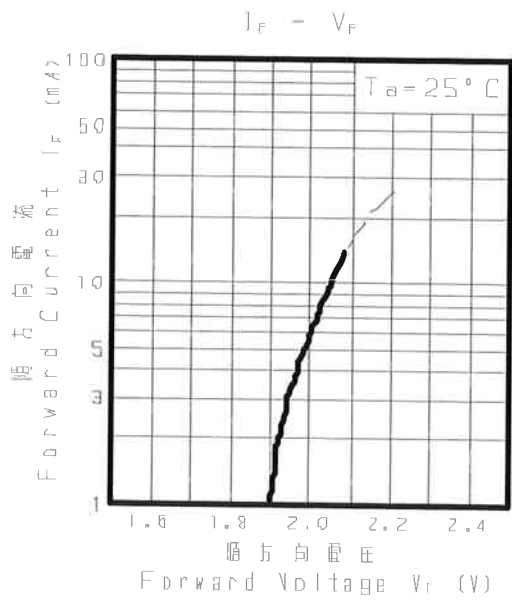
(B) Recommended circuit.

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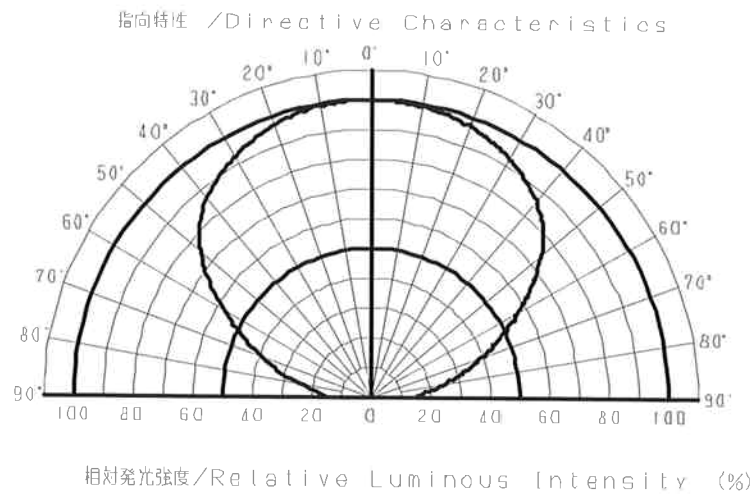
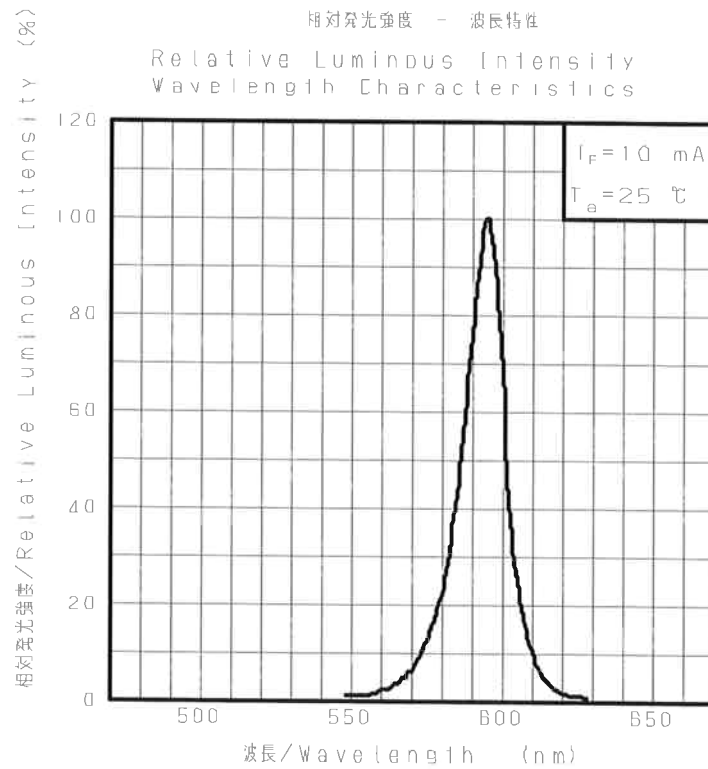
品番 / Product Number LNJ426W83RA



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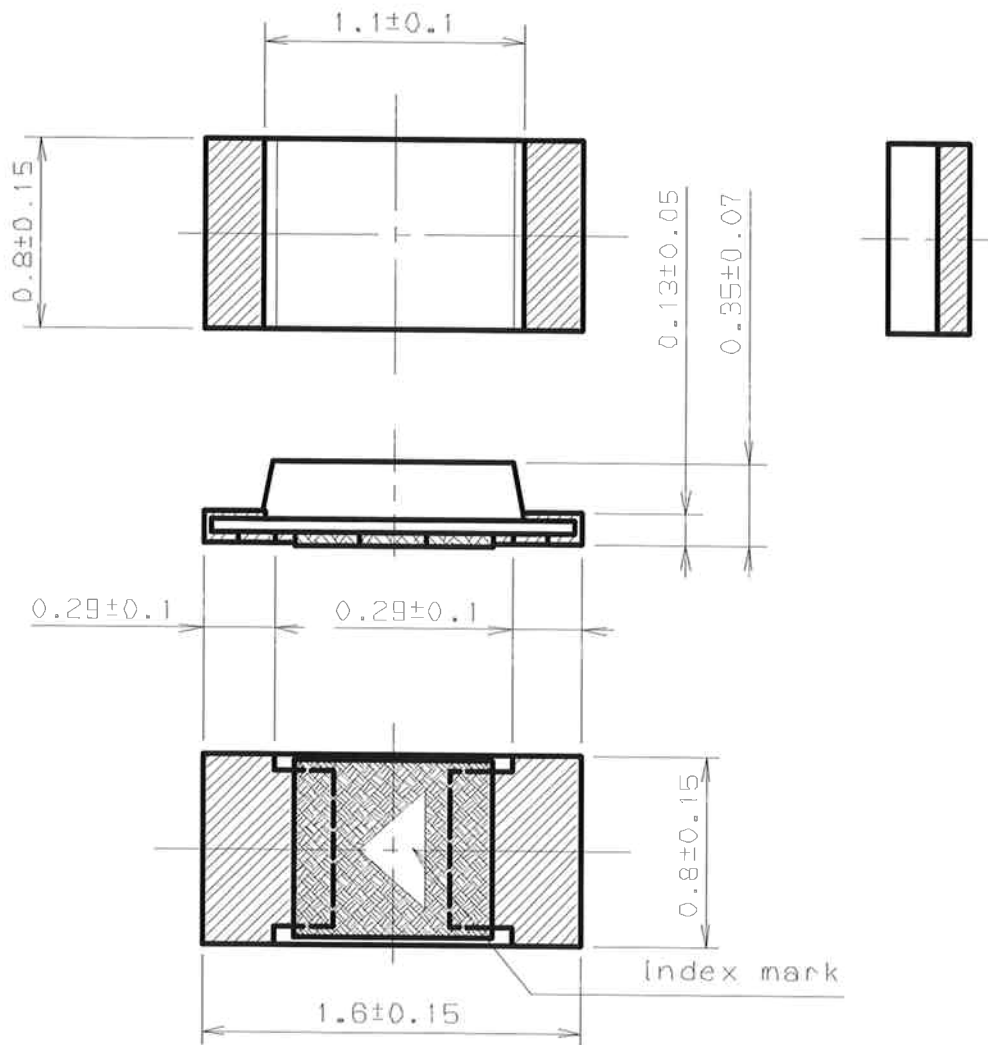
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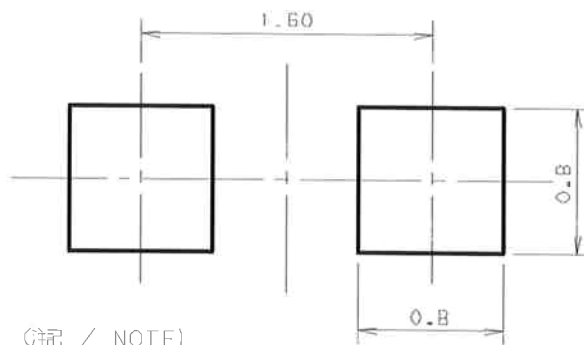
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推奨パターン / Recommended land layout



(注記 / NOTE)

- 1. Measurement of the package doesn't include electrode projection.
- 2. Unit: mm

- 1. パッケージ寸法については電極バリを含まない。
- 2. 単位: mm

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