TENTATIVE

開発仕様/Tentative Specification 品種名/Type Number:LNJ936W8CRA 松下統一品番/Matsushita Unified Parts Number :LNJ936W8CRA	Prepared by T.Onizuka	Checked by T.Maeda	Approved by T.Ikeda

種別/Type	ブルー発光ダイオード ／ Blue Light Emitting Diode (ESS チップ LED/ Excellent Super Small type Chip LED)
用途/Application	各種表示用/Indicators
材質/Material	InGaN on SiC
外形/Out line	附図/Attached
絶対最大定格 Absolute Maximum Ratings	(注 1)(Note1) P: 65 mW; I_{FP}: 55 mA; I_{FDC}: 15 mA; V_R: 5 V; Topr: -30 ～ +85 ℃; Tstg: -40 ～ +100 ℃
試験条件/Condition	Ta=25 ℃±3 ℃

電気的･光学的特性/Electrical-Optical Characteristics (Ta=25 ℃±3 ℃)

項目 Item	略号 Symbol	測定条件 Measuring Condition	Typ.	Limit		Unit
				Min.	Max.	
順方向電圧降下 Forward Voltage	V_F	I_F=5 mA DC	2.9	—	3.2	V
逆方向漏洩電流 Reverse Leakage Current	I_R	V_R=5 V	—	—	10	μA
光度(軸上) (注 2)(Note2) Luminous Intensity	I_O	I_F=5 mA DC	14.0	8.5	24.6	mcd
ドミナント発光波長 (注 3)(Note3) Dominant Emission Wavelength	λd	I_F=5 mA DC	472	467	477	nm
ピーク発光波長 Peak Emission Wavelength	λp	I_F=5 mA DC	465			nm
スペクトル半値幅 Spectral Line Half Width	Δλ	I_F=5 mA DC	20			nm

(注 1) ･I_{FP} の条件は、duty 10 %, Pulse width 1 ms.
I_{FDC}=1 mA 以下およびパルス印加時間 pulse width 1 ms, duty 10 %未満の使用ならびに疑問点に関しましては、お問い合わせのほどお願い申しあげます。
(Note1)･The condition of I_{FP} is duty 10 %,pulse width 1 ms
Please contact us for further information regarding special operating conditions such as
I_F:less than DC =1 mA
I_{FP}:less than pulse width =1 ms, duty=10 %

(注 2) 光度ランクについて
(Note2) Rank classification of luminous intensity.
(測定条件／condition ; I_F=5 mA)

Rank	光度(軸上) Luminous intensity (mcd)
1	8.5 ～ 14.5
2	14.5 ～ 24.6

測定公差／Measurement tolerance : ±20 %

(注 3) 波長ランクについて
(Note2) Rank classification of dominant wavelength.
(測定条件／condition ; I_F=5 mA)

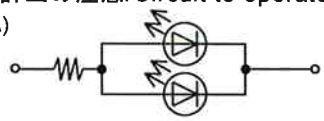
ドミナント発光波長 Dominant Emission Wavelength (nm)
467～ 477

測定公差／Measurement tolerance :±2 nm

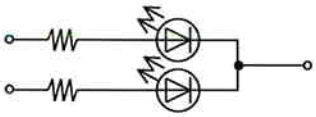
(注 4)(Note4) ･静電気による製品破壊にご注意ください。/Be careful of the product destruction by static electricity.

(注 5)(Note5) ･回路設計上の注意/Circuit to operate LED.

(A)



(B)



※(A)の回路については、V_F の影響により光度バラツキが懸念されますので、(B)の回路推奨します。
※(A) The difference of brightness between the LED could be found due to the V_F characteristics of each LED. (B) Recommended circuit.

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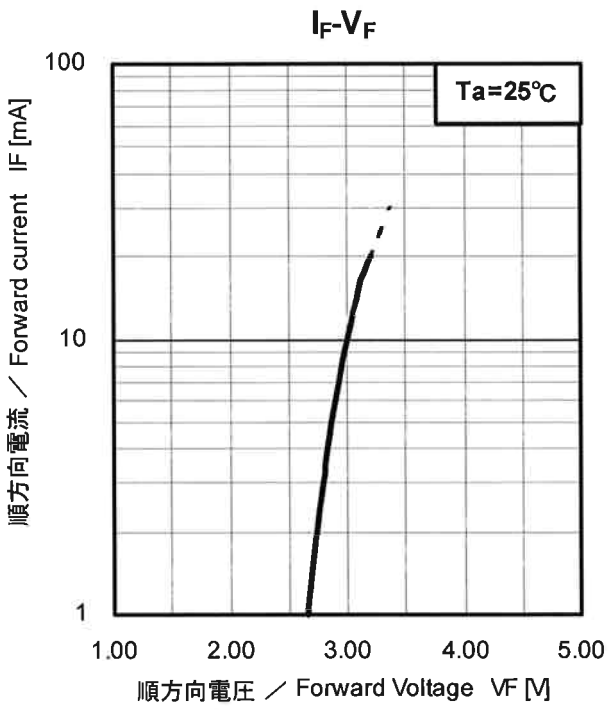
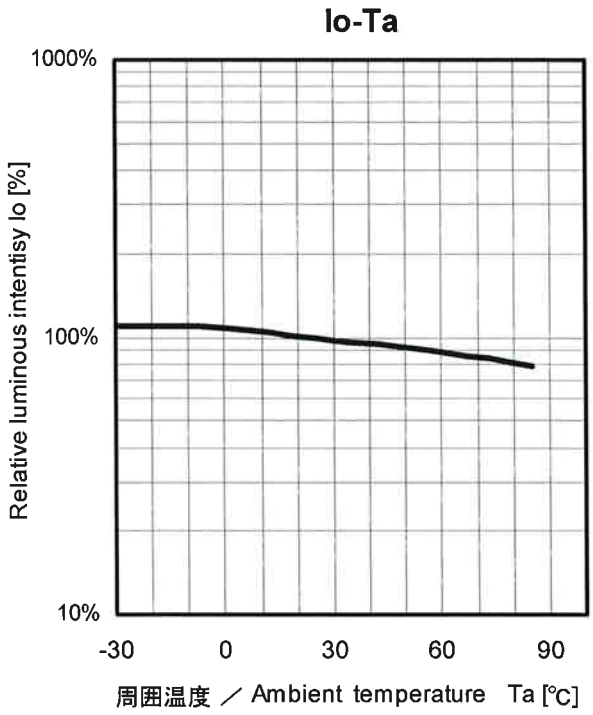
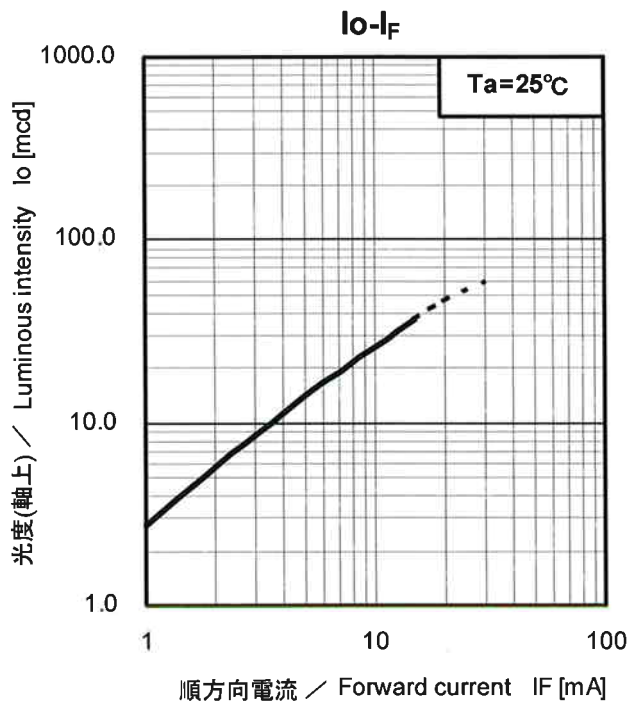
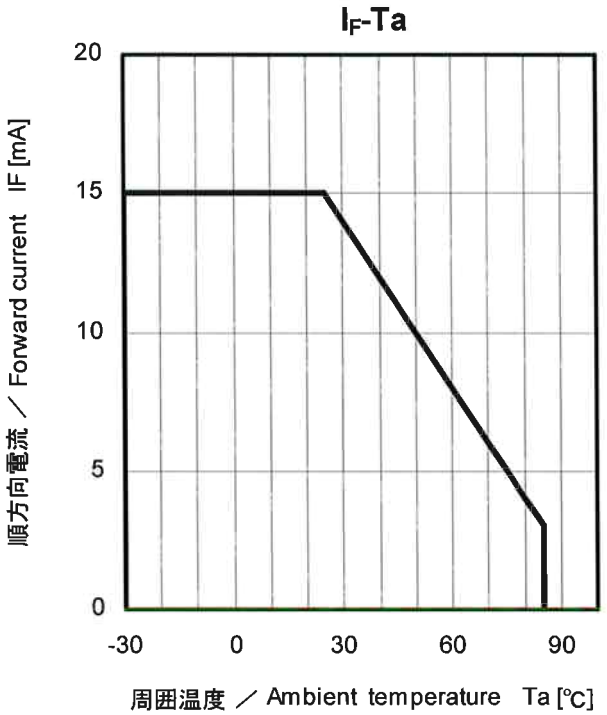
: LNJ936W8CRA









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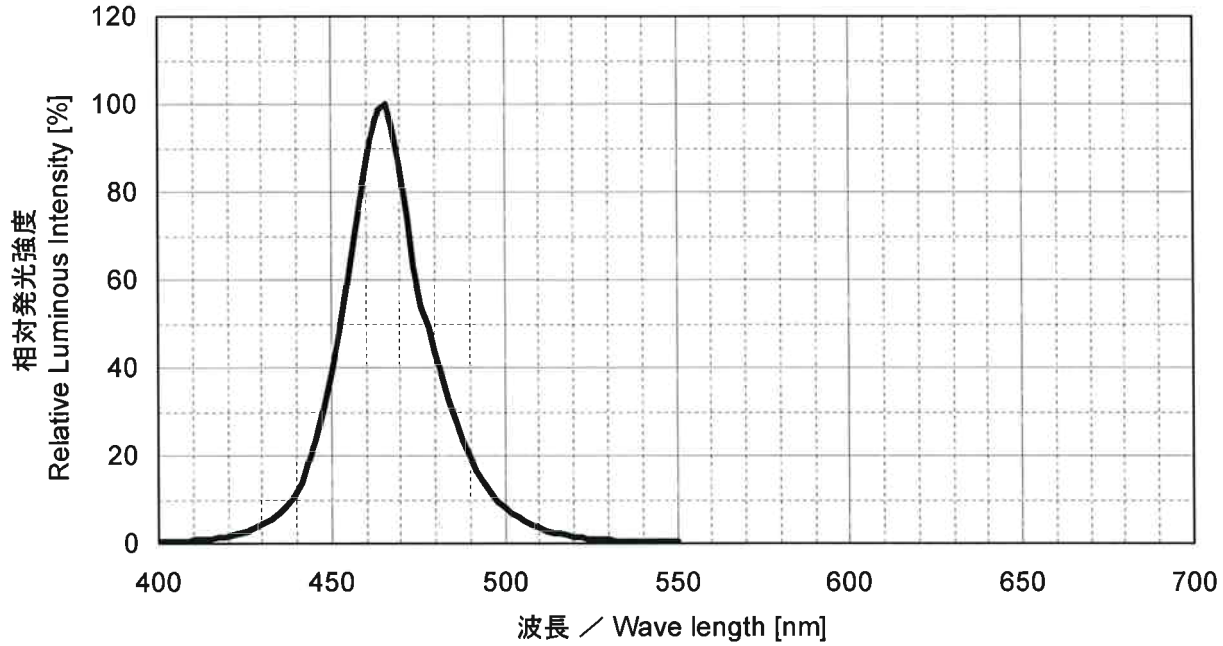
相対発光強度 － 波長特性
Relative Luminous Intensity Wavelengh Characteristics



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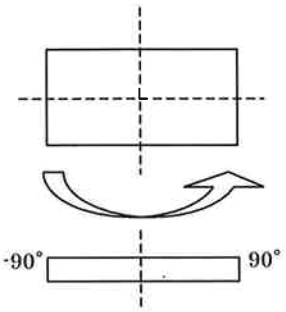
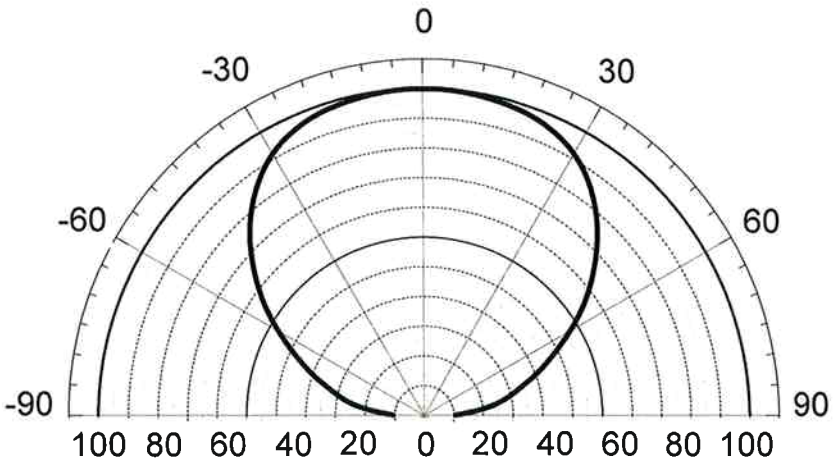
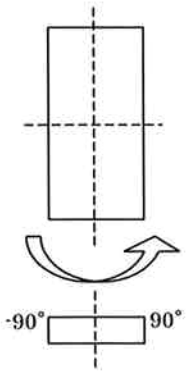
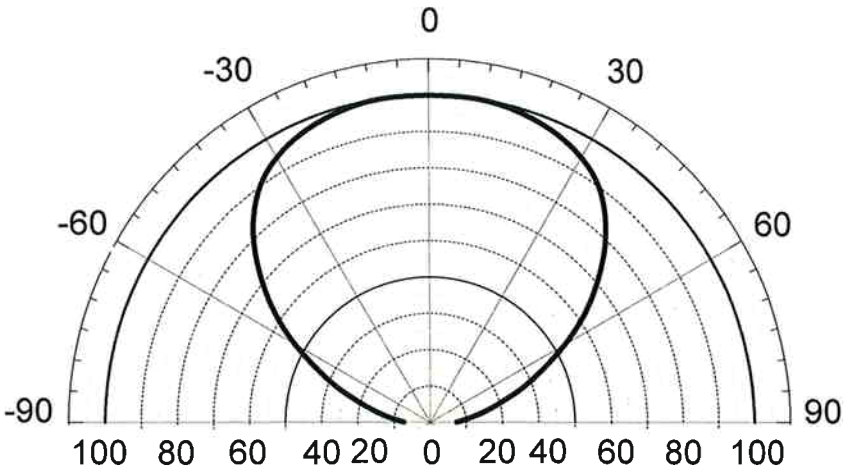
指向特性／Directive Characteristics





指向特性／Directive Characteristics





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開発仕様/Tentative Specification
外形図/Outline
品種名/Type Number:LNJ936W8CRA
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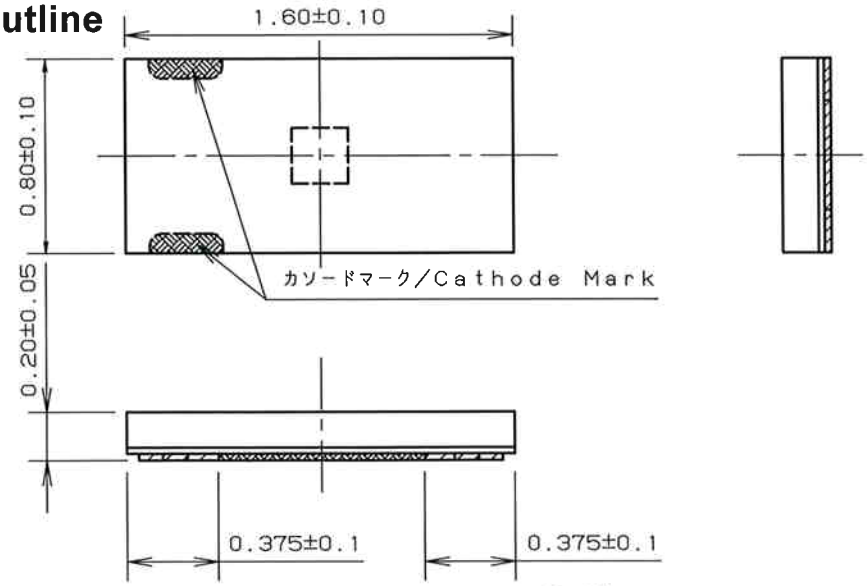
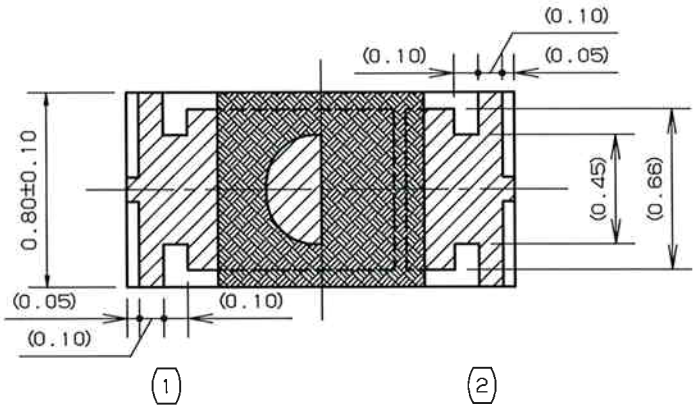
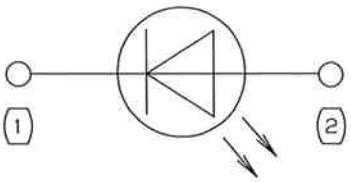
外形図／Outline

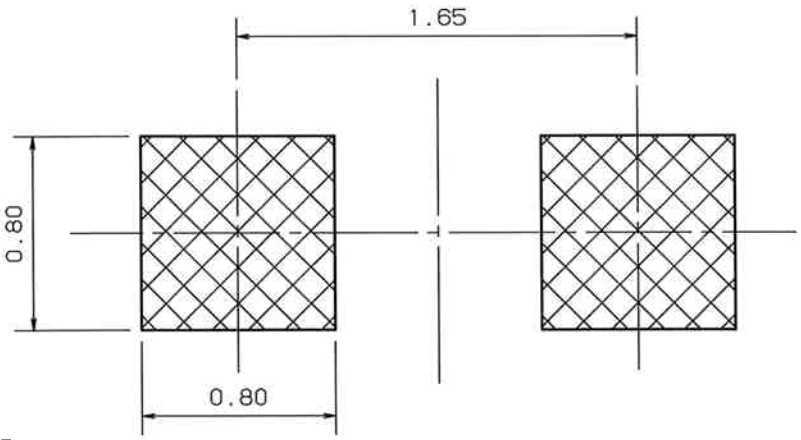




極性／Polarity



推奨ランドパターン／Recommended land layout



注記／Notes

1.パッケージ寸法については電極バリを含まない／Package dimensions don't include electrode projection.
2.単位 ：mm／Unit : mm
3.半田厚みについて、は貴社にて十分ご検討下さい。(推奨厚み ：t=0.10～0.15 ㎜)
／About solder thickness, please examine the products yourself completely.
(Recommended thickness : t=0.10 - 0.15 ㎜)

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