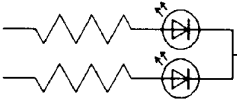
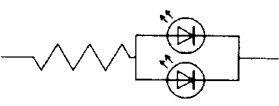


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION					
	<i>h.wi</i>	<i>M. Miyake</i>	Tentative : LNJ319G9TRA			TEMPORARY		
T Y P E			Green Light Emitting Diode					
APPLICATION			Indicators					
M A T E R I A L			GaP					
O U T L I N E			Attached					
A B S O L U T E			P	*1 I _{FP}	I _{FLC}	V _R	Topr	Tstg
M A X I M U M			40	50	15	4	-30~+85	-40~+100
R A T I N G S			mW	mA	mA	V	°C	°C
C O N D I T I O N			T _a = 25 ± 3 °C					
T e s t S p e c i f i c a t i o n								
I t e m	Symbol	C o n d i t i o n	Typ	Limit		Unit		
				Min	Max			
Forward Voltage	V _F	I _F = 10 mA	2.03		2.6	V		
Reverse Leakage Current	I _R	V _R = 4 V			10	μ A		
Luminous Intensity *2	I _O	I _F = 10 mA DC	3.7	2.0		mcd		
Peak Emission Wavelength	λ _p	I _F = 10 mA DC	565			nm		
Spectral Line Half Width	Δλ	I _F = 10 mA DC	30			nm		
<p>*1 · The Condition of I_{FP} is duty 10 % , Pulse width 1 ms</p> <p>· Please contact the Panasonic local office if you design at low current (below 1 mA DC) or pulse current operation and have any questions.</p> <p>*2 Measurement Tolerance is ±20%.</p> <p>NOTE</p> <p>★1. Terminal:Plated with gold on copper base.</p> <p>★2. Soldering conditions. Refer to Handling note.</p> <p>★3. Care should be taken that soldering is done within 3-days after opening the dry package and reel.</p> <p>★4. Circuit to operate LED.</p>								
					(A) Recommended circuit.			
					(B) The difference of brightness between the LED could be found due to the V _F characteristics of each LED.			
Mar. 23, 2000								

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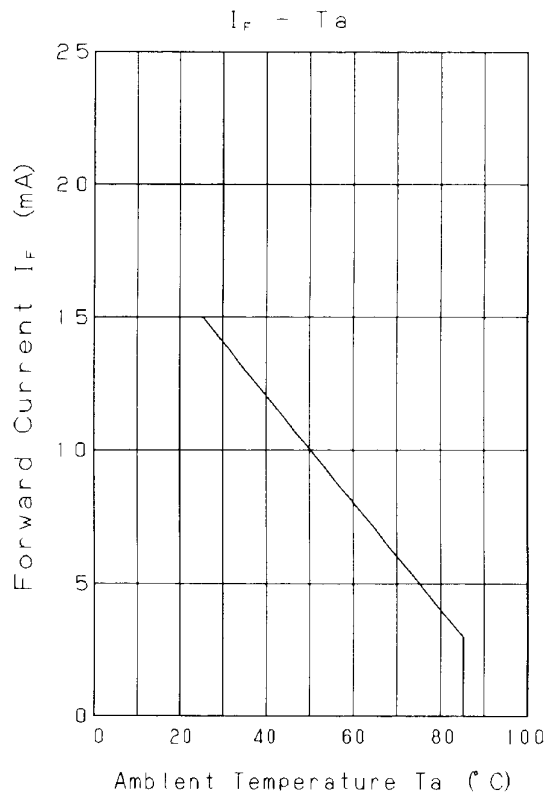
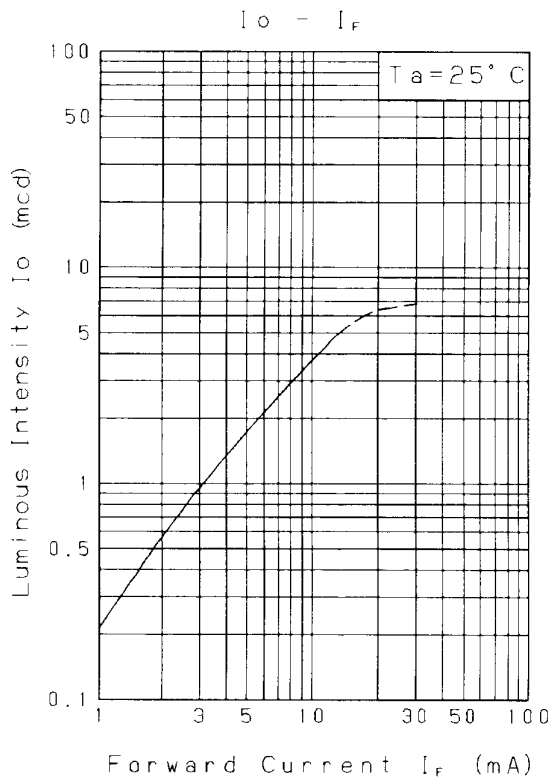
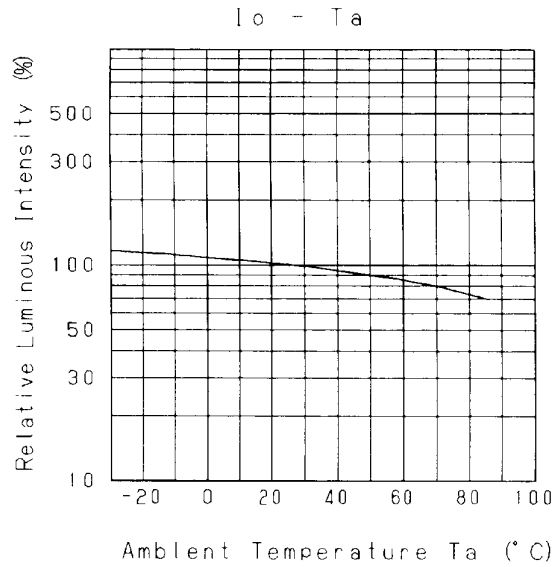
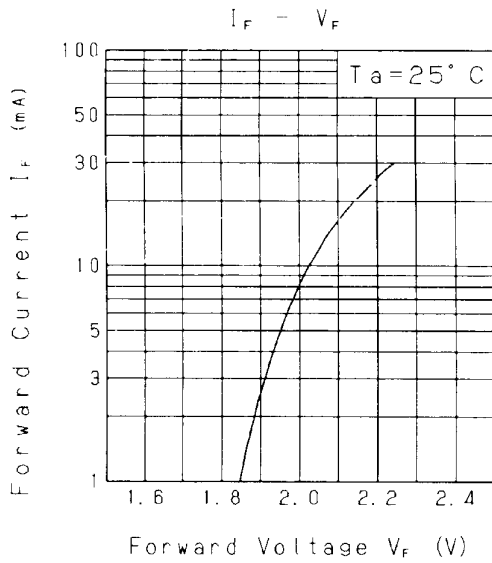
KB-H-022-018B

Approved	Checked	Designed
	<i>J. H. H.</i>	<i>M. Meyer</i>

DEVELOPMENT SPECIFICATION

Tentative: LNJ319G9TRA

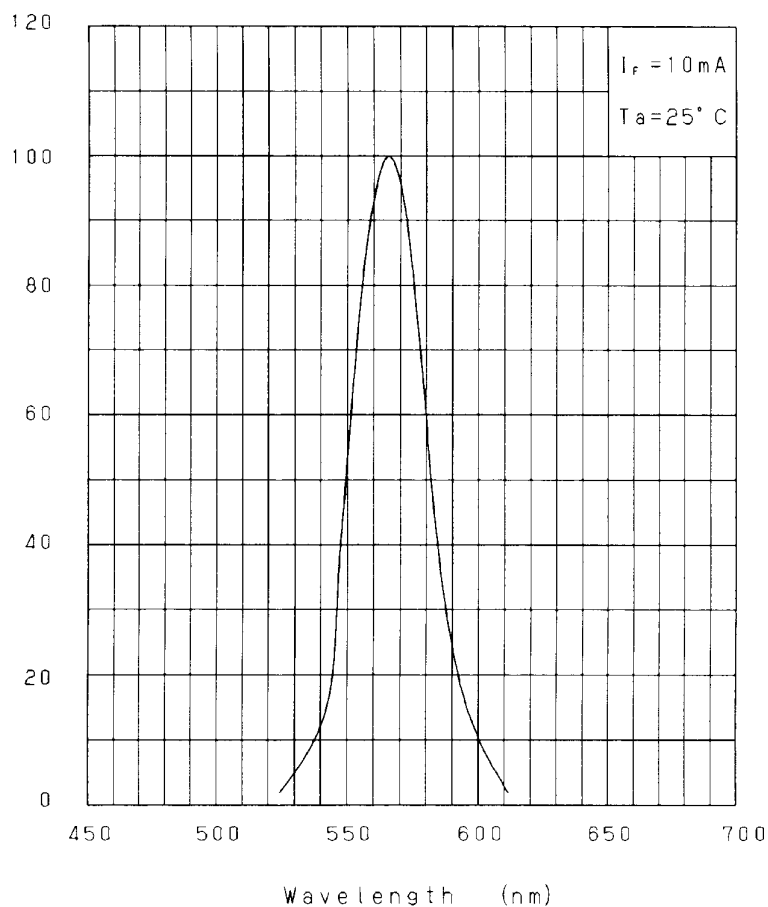
TEMPORARY



Mar. 23, 2000		

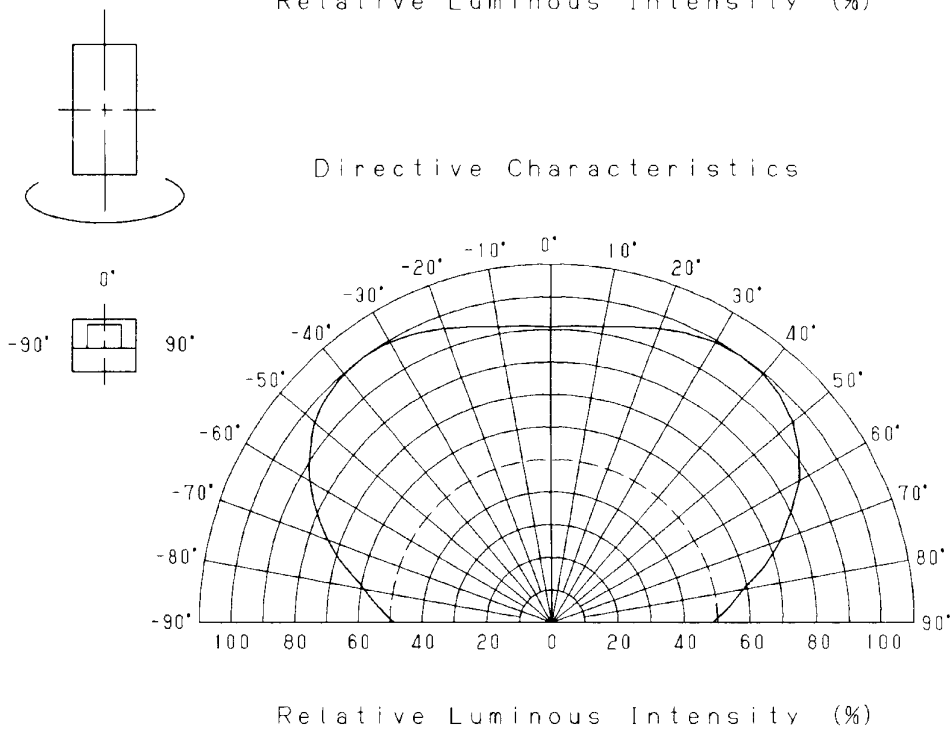
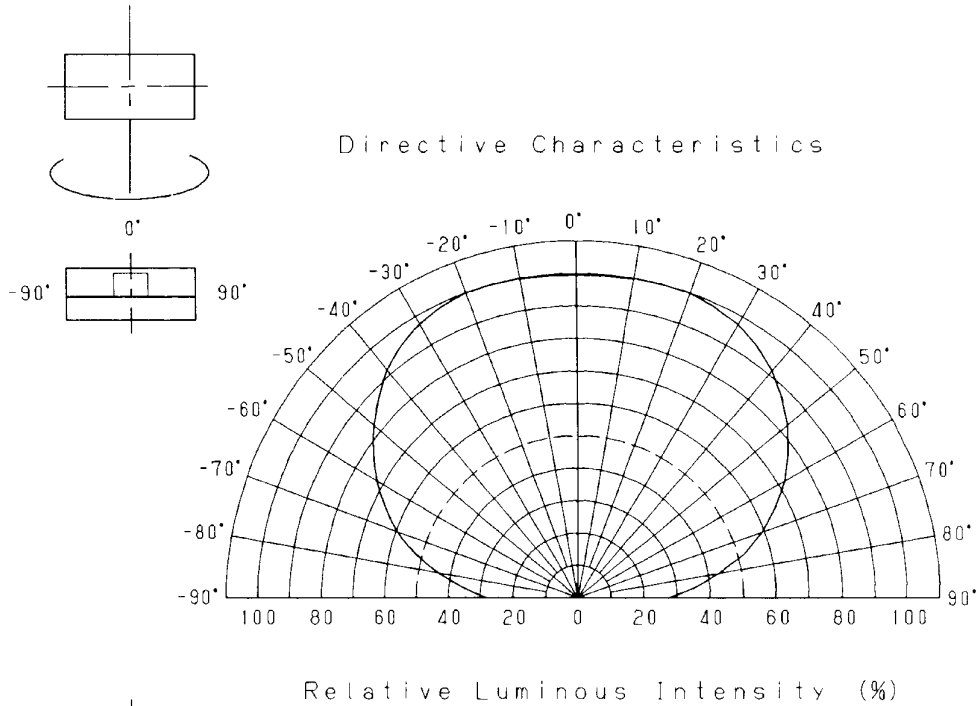
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION		
	<i>[Signature]</i>	<i>[Signature]</i>		Tentative: LNJ319G9TRA	TEMPORARY

Relative Luminous Intensity
Wavelength Characteristics



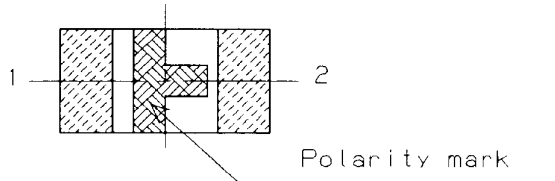
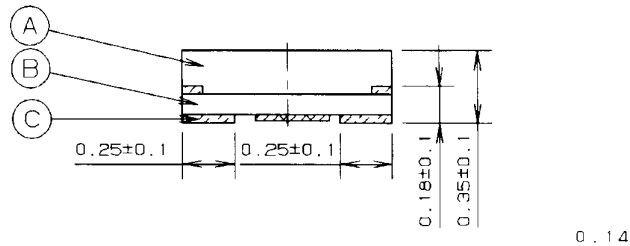
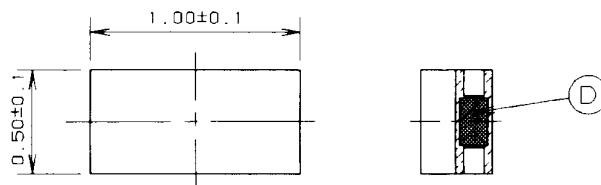
Mar. 23. 2000			

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION	TEMPORARY	
	<i>h. h.</i>	<i>M. P.</i>			

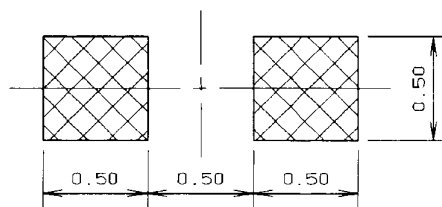


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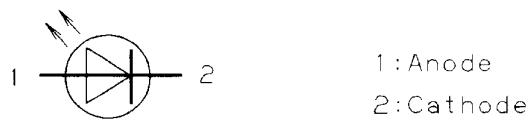
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION (O U T L I N E) P/N:LNJ319G9TRA	TEMPORARY	
	<i>M. W.</i>	<i>M. M. M.</i>			



Recommended Land Layout



Polarity



- NOTE)
1. Measurement of the package doesn't include electrode projection.
 2. Unit:mm
 3. Materials; (A) Epoxy resin
(B) Substructure
(C) Terminal (Cu/Ni/Au plating)
(D) Potting resin

Mar. 23. 2000			