Approved	Checked	Designed	DEVELOPMENT SPECIFICATION	
			Tentative : LNJ319G9TRA	TEMPORARY

TYPE	Green Light Emitting Diode					
APPLICATION	Indicators					
MATERIAL	GaP					
OUTLINE	Attached					
ABSOLUTE MAXIMUM RATINGS	P	*1 I_{FP}	I_{FDC}	V_R	Topr	Tstg
	40 mW	50 mA	15 mA	4 V	-30～+85 ℃	-40～+100 ℃
CONDITION	Ta＝25±3℃					

Test Specification

Item	Symbol	Condition	Typ	Limit Min	Limit Max	Unit
Forward Voltage	V_F	I_F＝10 mA	2.03		2.6	V
Reverse Leakage Current	I_R	V_R＝ 4 V			10	μA
Luminous Intensity *2	I_O	I_F＝10 mA DC	3.7	2.0		mcd
Peak Emission Wavelength	λp	I_F＝10 mA DC	565			nm
Spectral Line Half Width	Δλ	I_F＝10 mA DC	30			nm

*1 · The Condition of I_{FP} is duty 10 % , Pulse width 1 ms
· Please contact the Panasonic local office if you design at low current (below 1 mA DC) or pulse current operation and have any questions.

*2 Measurement Tolerance is ±20%.

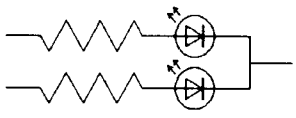
NOTE

★1. Terminal:Plated with gold on copper base.

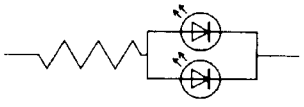
★2. Soldering conditions.
Refer to Handling note.

★3. Care should be taken that soldering is done within 3-days after opening the dry package and reel.

★4. Circuit to operate LED.



(A)



(B)

(A) Recommended circuit.
(B) The difference of brightness between the LED could be found due to the V_F characteristics of each LED.

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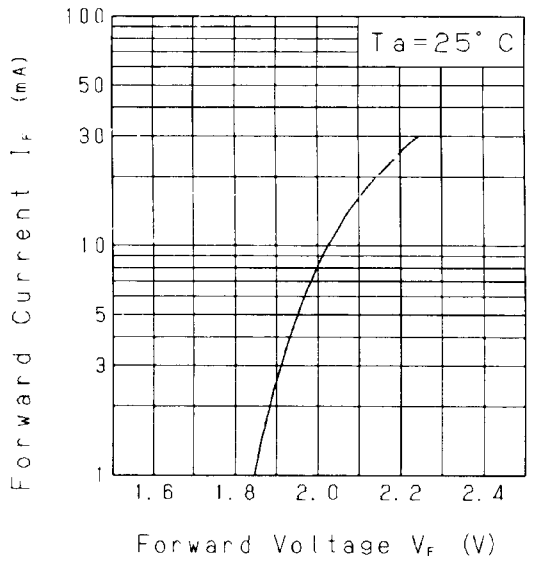
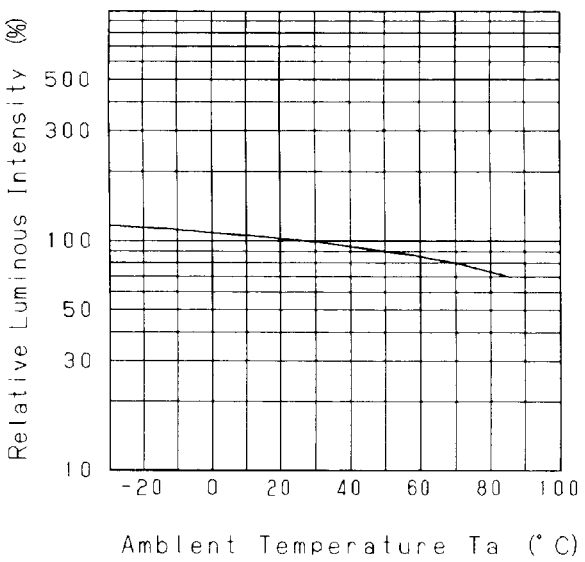
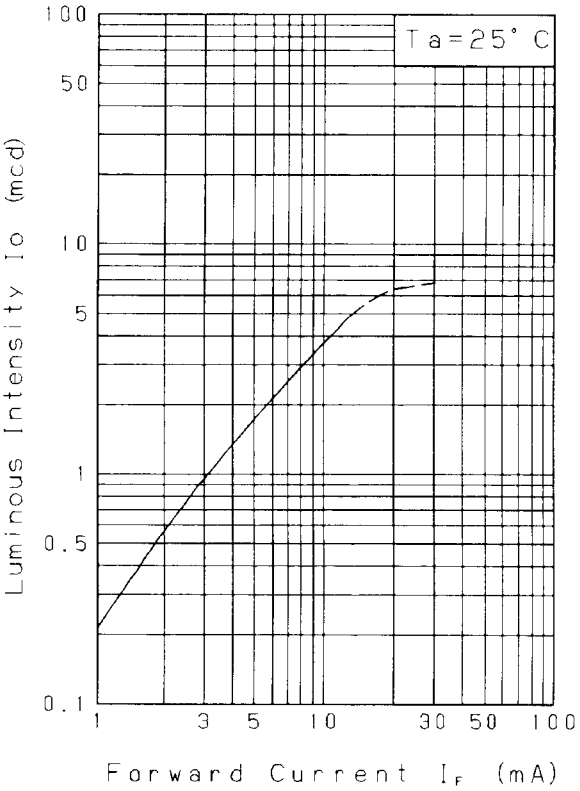
$I_F - V_F$



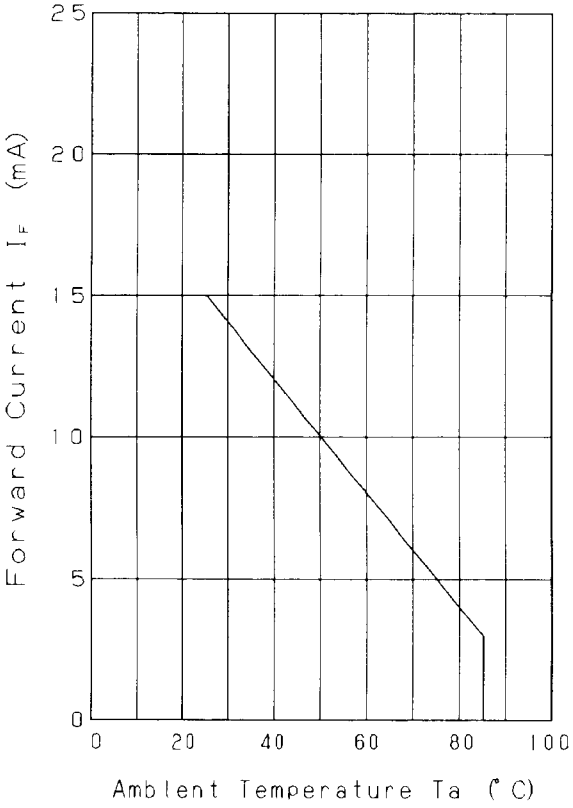
Io - Ta



Io - I_F



I_F - Ta



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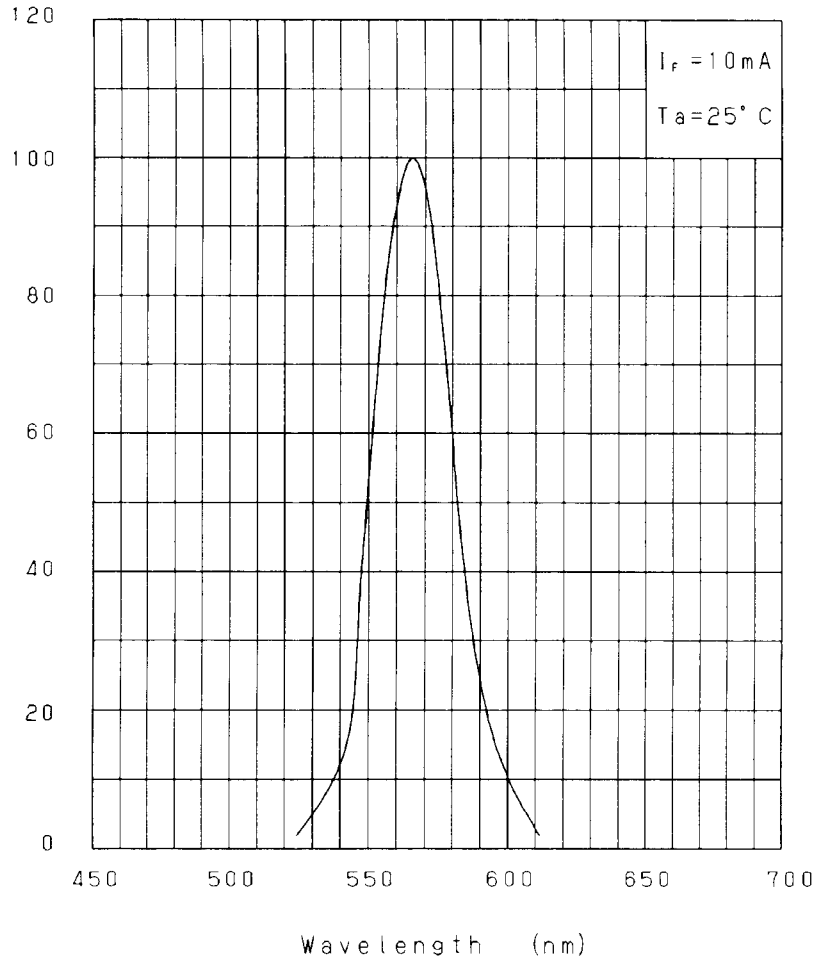
Relative Luminous Intensity
Wavelength Characteristics



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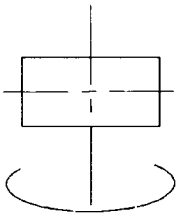
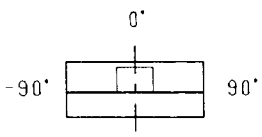
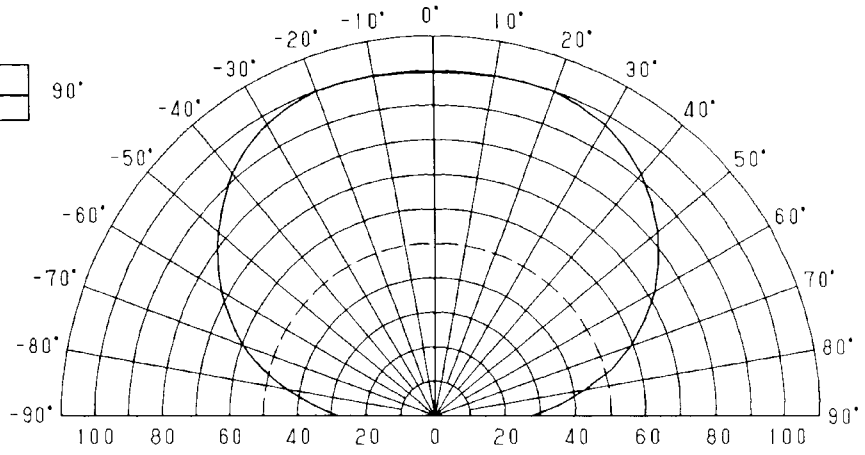
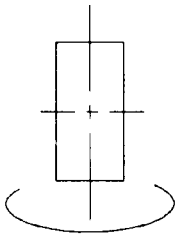


Directive Characteristics

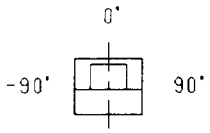


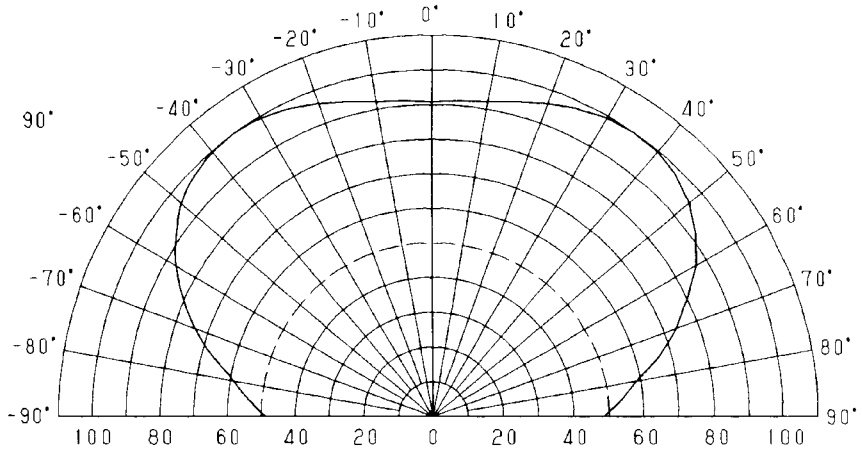


Relative Luminous Intensity (%)



Directive Characteristics





Relative Luminous Intensity (%)

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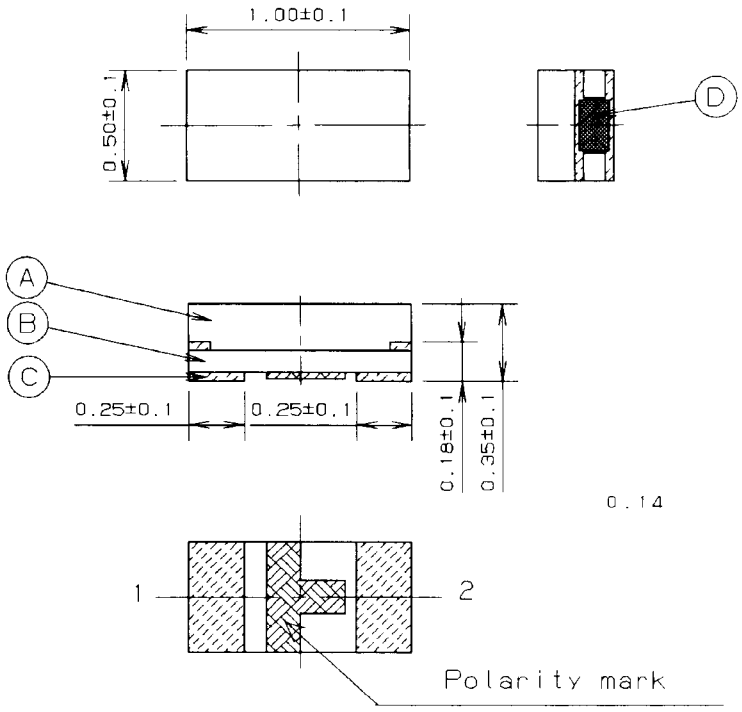
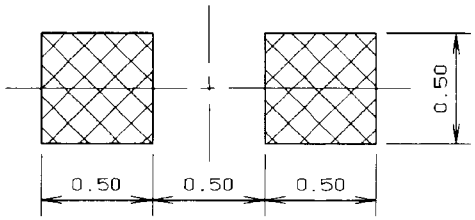
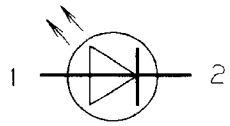
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION (OUT LINE) P/N:LNJ319G9TRA	TEMPORARY



Recommended Land Layout



Polarity



1:Anode
2:Cathode

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

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