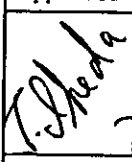
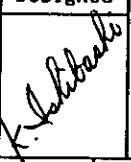
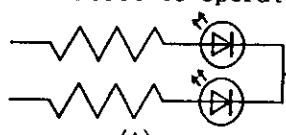
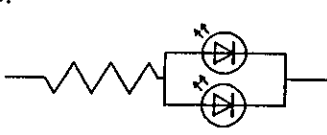
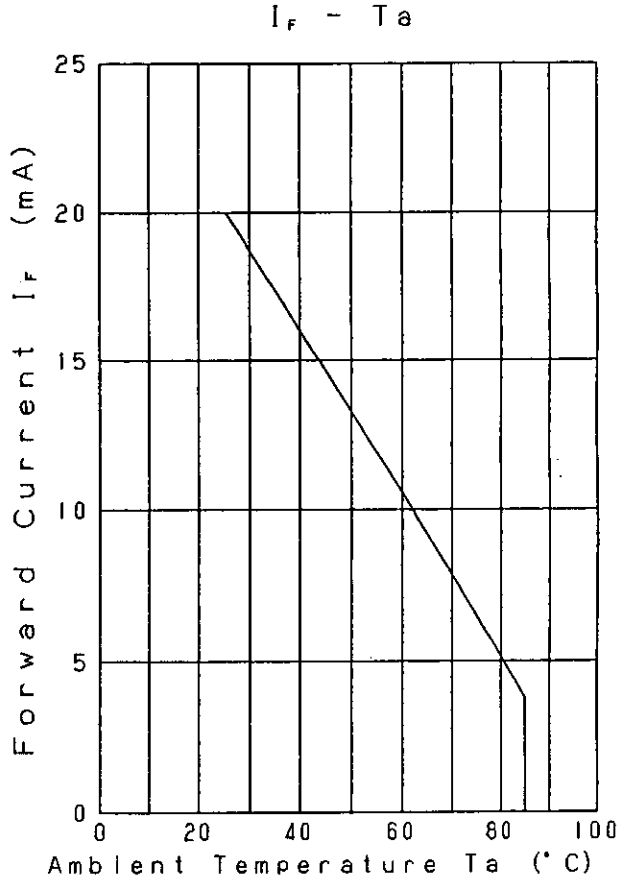
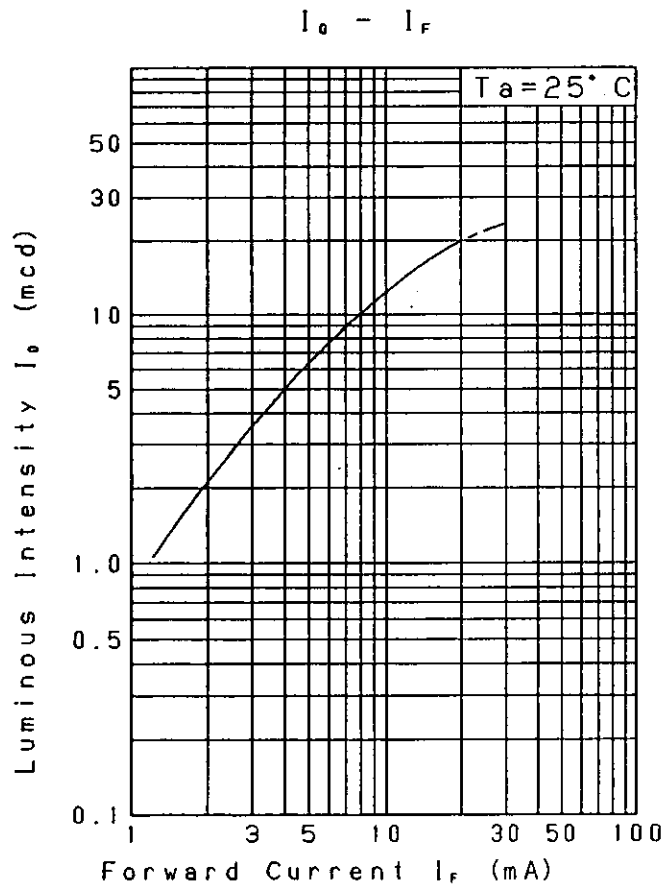
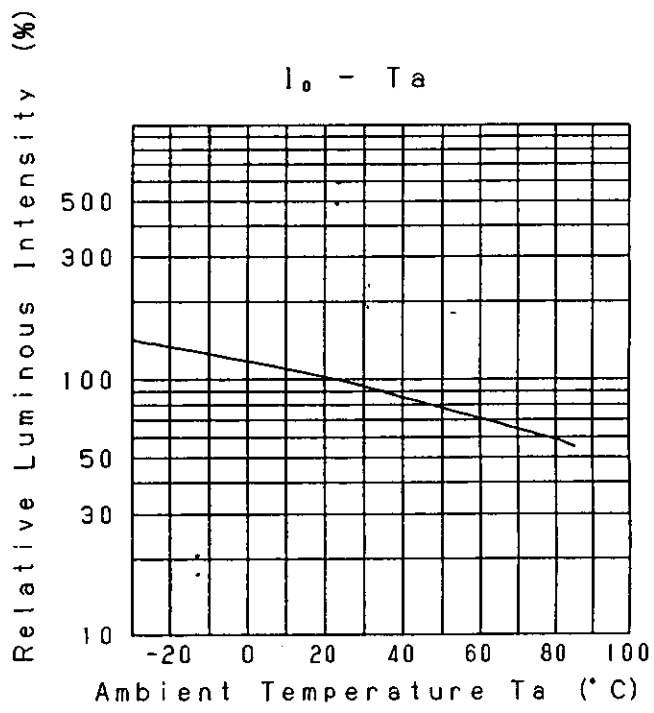
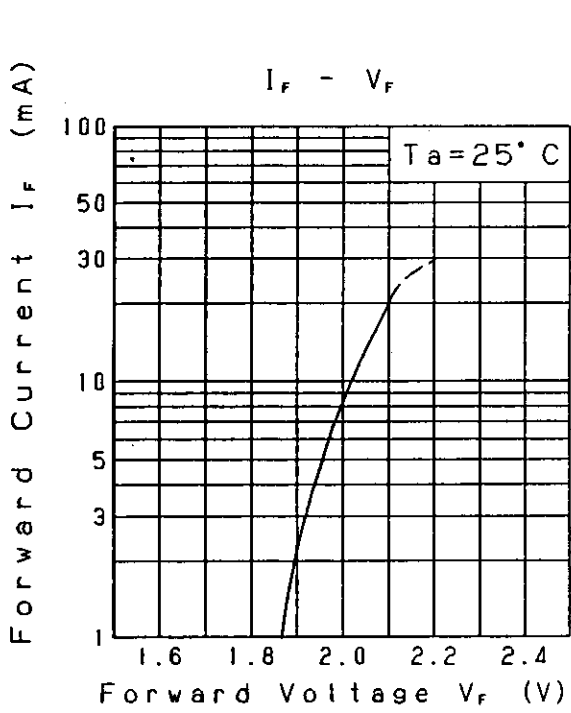


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION															
			P/N:LNJ312G83RA															
T	Y	P	E	Green Light Emitting Diode														
APPLICATION				Indicators														
MATERIAL				InGaAlP														
OUTLINE				Attached														
ABSOLUTE MAXIMUM RATINGS				P	*1 I _{FP}	I _{FLX}	V _R	Topr	Tstg									
				55	60	20	4	-30~+85	-40~+100									
				mW	mA	mA	V	℃	℃									
CONDITION				Ta=25±3℃														
Test Specification																		
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		2.5	V												
Reverse Leakage Current	I _R	V _R = 4 V			100	μ A												
Luminous Intensity *2	I _O	I _F =10 mA DC	12	6.4		mcd												
Peak Emission Wavelength	λ _p	I _F =10 mA DC	575			nm												
Spectral Line Half Width	Δλ	I _F =10 mA DC	15			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%. Rank classification of luminous intensity. (Measurement condition ; I_F=10mA) <table><tr><td>Rank</td><td>Luminous intensity(mcd)</td></tr><tr><td>1</td><td>6.4 ~ 9.6</td></tr><tr><td>2</td><td>9.6 ~ 14.4</td></tr><tr><td>3</td><td>14.4 ~ 21.6</td></tr><tr><td>4</td><td>21.6 ~ 32.4</td></tr></table>							Rank	Luminous intensity(mcd)	1	6.4 ~ 9.6	2	9.6 ~ 14.4	3	14.4 ~ 21.6	4	21.6 ~ 32.4		
Rank	Luminous intensity(mcd)																	
1	6.4 ~ 9.6																	
2	9.6 ~ 14.4																	
3	14.4 ~ 21.6																	
4	21.6 ~ 32.4																	
NOTE																		
★1. Terminal:Plated with gold on copper base.																		
★2. Beware of destruction by static electricity in handling the LED.																		
★3. Soldering conditions.																		
Refer to Handling note.																		
★4. Care should be taken that soldering is done within 3-days after opening the dry package and reel.																		
★5. Circuit to operate LED.																		
							(A)Recommended circuit. (B)The difference of brightness between the LED could be found due to the V _F characteristics of each LED.											
(A)				(B)														
Dec. 16. 2000																		

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
<i>T. Ikeda</i>	<i>H. Iwano</i>	<i>K. Sakurai</i>	P/N: <u>LNJ312G83RA</u>			

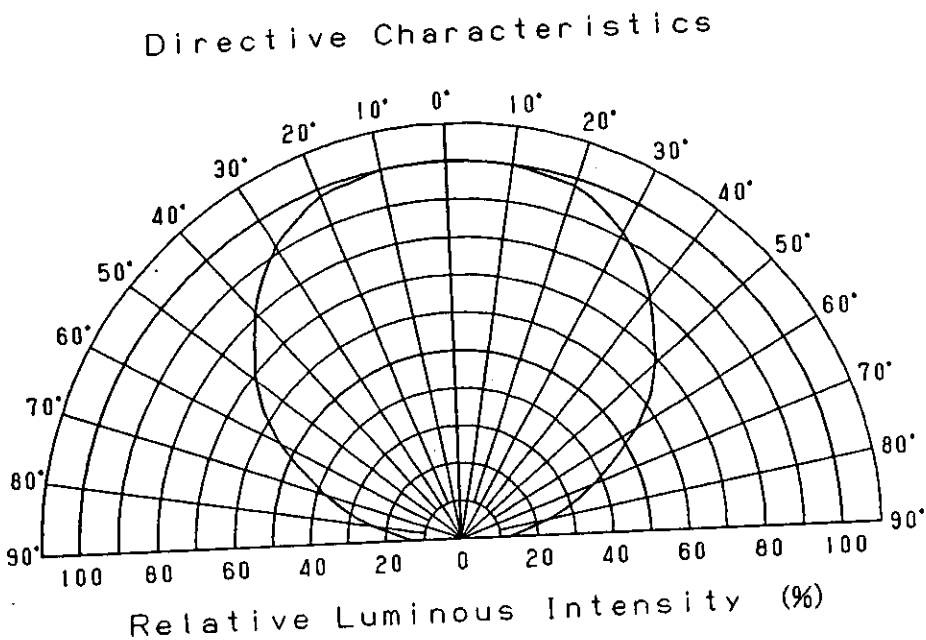
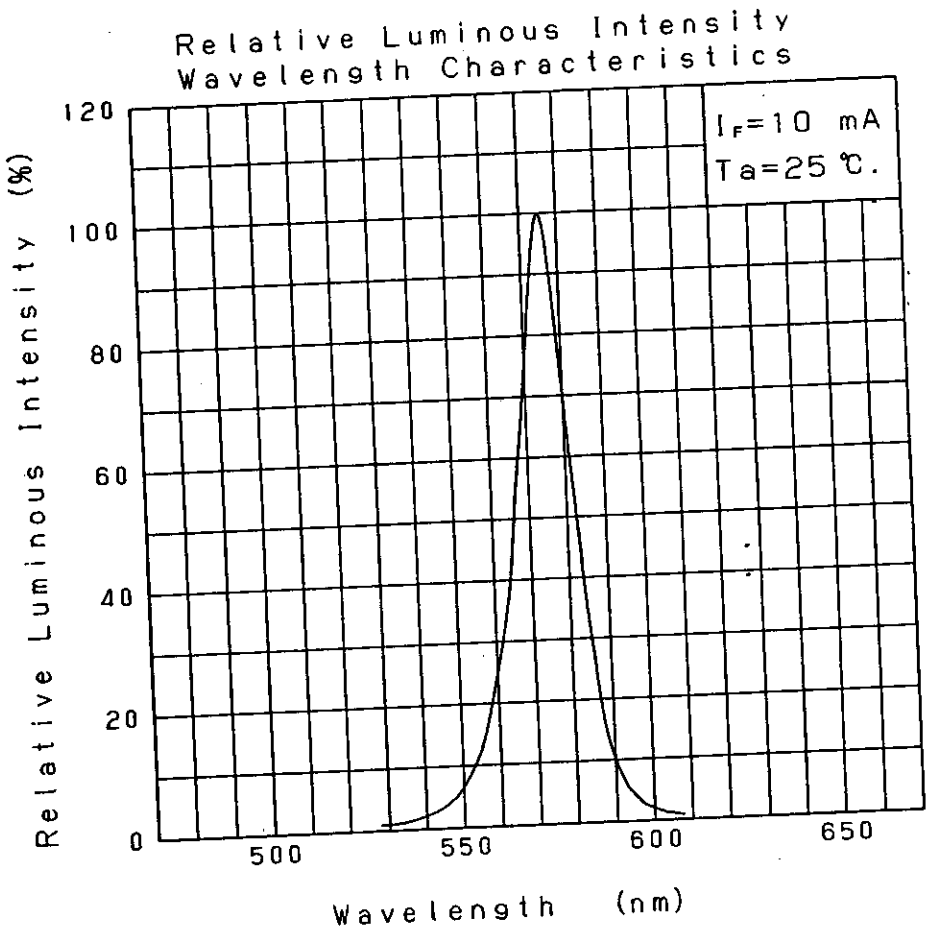


Dec.16.2000			

Approved	Checked	Designed
T. Ikeda	M. Ito	K. Shimizu

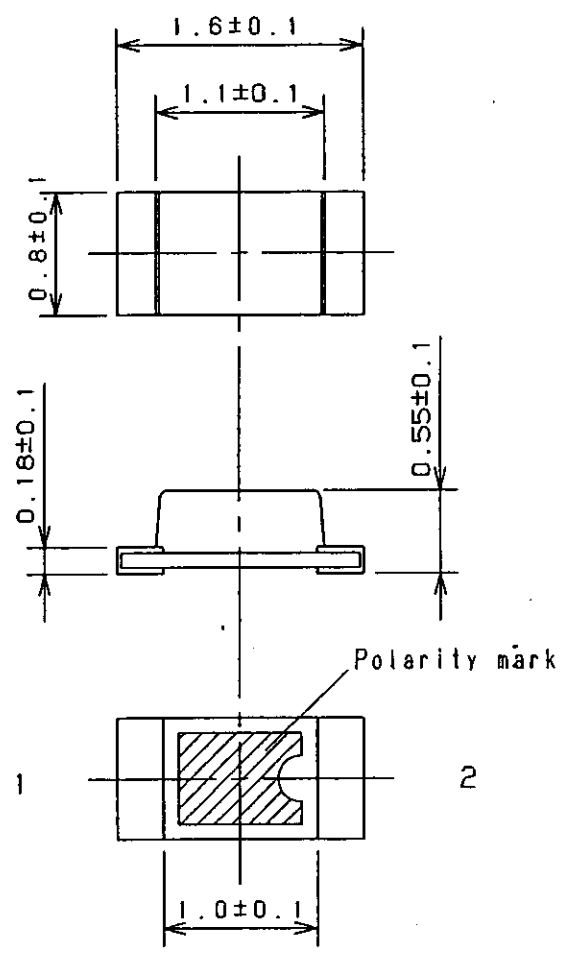
DEVELOPMENT SPECIFICATION

P/N: LNJ312G83RA

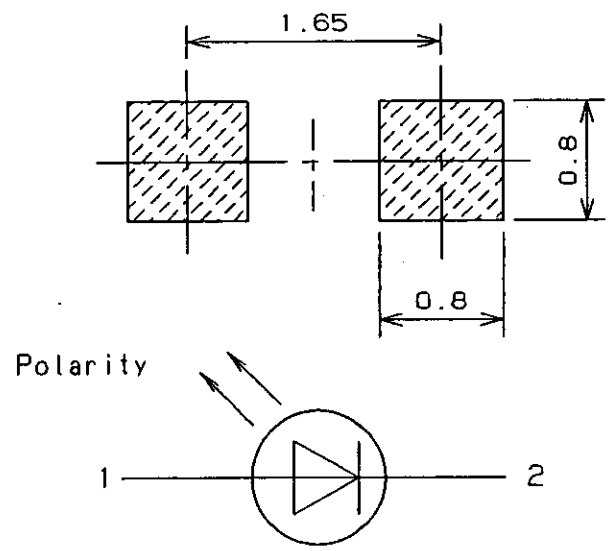


Approved <i>T. Shida</i>	Checked <i>M. Ito</i>	Designed <i>K. Ishihara</i>
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DEVELOPMENT SPECIFICATION
(O U T L I N E)
P/N:LNJ312G83RA



Recommended Land Layout



1: Anode
2: Cathode

(NOTE)

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