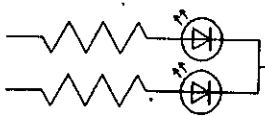
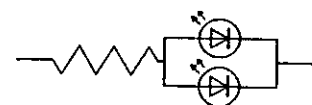


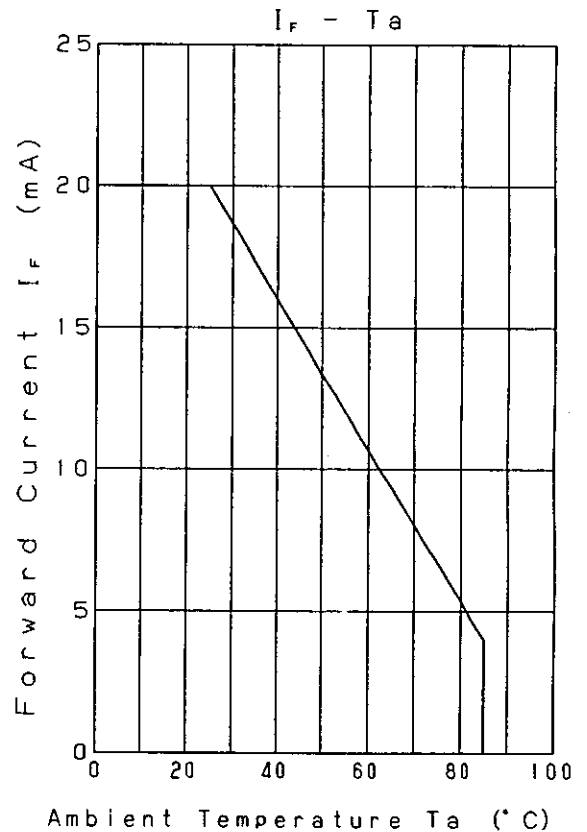
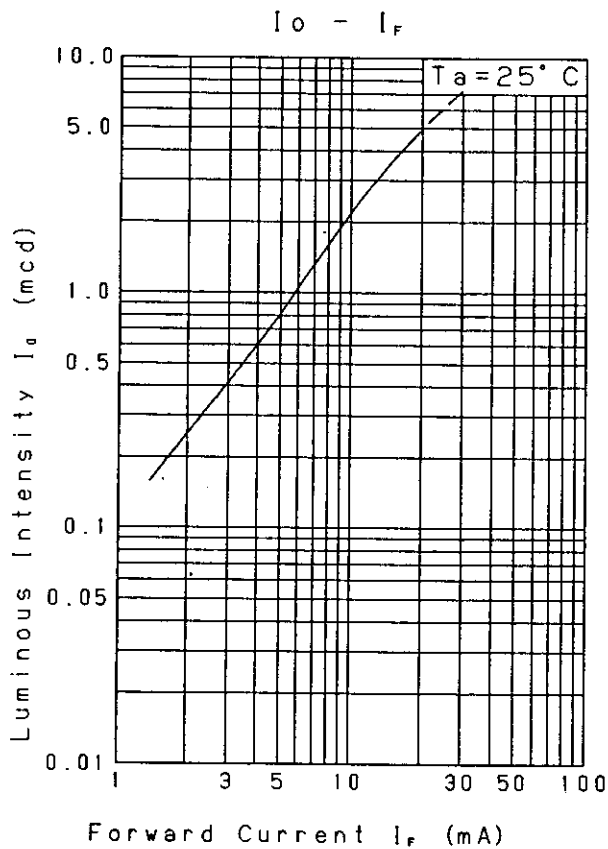
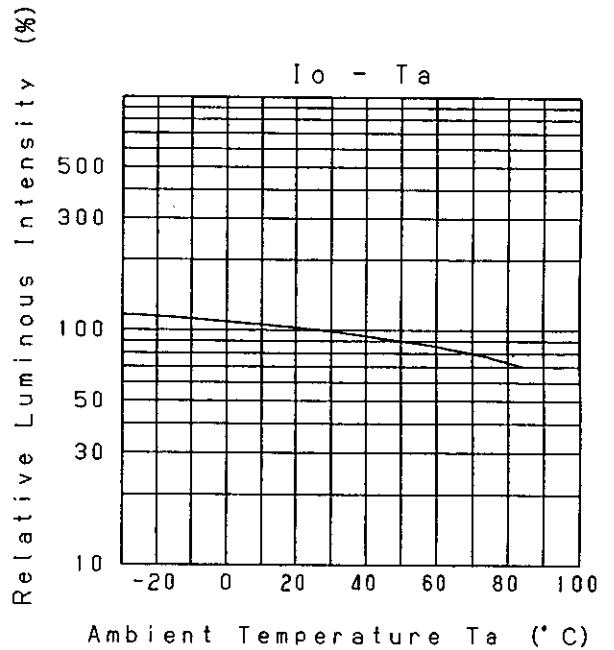
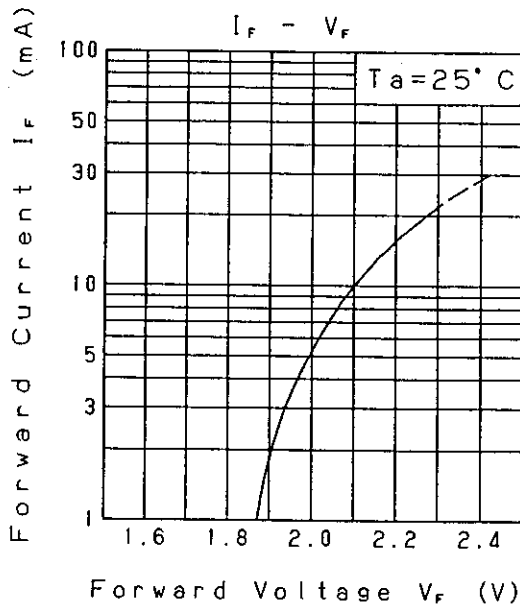
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION				TEMPORARY	
		T. Tabata	P/N: LNJ311G84RA					
TYPE			Green Light Emitting Diode					
APPLICATION			Indicators					
MATERIAL			GaP					
OUTLINE			Attached					
ABSOLUTE MAXIMUM RATINGS			P	*1 I _{FP}	I _{FDC}	V _R	Topr	Tstg
			60	60	20	4	-30~+85	-40~+100
			mW	mA	mA	V	°C	°C
CONDITION			T _a = 25 ± 3°C					
Test Specification								
Item	Symbol	Condition	Typ	Limit		Unit		
				Min	Max			
Forward Voltage	V _F	I _F = 10 mA	2.1		2.6	V		
Reverse Leakage Current	I _R	V _R = 4 V			10	μA		
Luminous Intensity *2	I _O	I _F = 10 mA DC	2.1	1.1		mcd		
Peak Emission Wavelength	λ _p	I _F = 10 mA DC	560			nm		
Spectral Line Half Width	Δλ	I _F = 10 mA DC	25			nm		
<p>*1. The Condition of I_{FP} is duty 10 % , Pulse width 1 ms</p> <p>*2. Tolerance of luminous intensity : ±20%.</p> <p>NOTE</p> <p>★1. Please contact the Panasonic local office if you design at low current (below 1mA DC) or pulse current operation and have any questions.</p> <p>★2. Soldering conditions...Refer to Handling note.</p> <p>★3. Compositions of the lead ... Cu/Ni/Au plating</p> <p>★4. Circuit to operate LED.</p>								
								
(A)			(B)			<p>(A) Recommended circuit.</p> <p>(B) The difference of brightness between the LED could be found due to the V_F characteristics of each LED.</p>		
Oct. 20. 2001								

Approved Checked Designed

DEVELOPMENT SPECIFICATION

P/N: LNJ311G84RA

TEMPORARY



Oct.20.2001

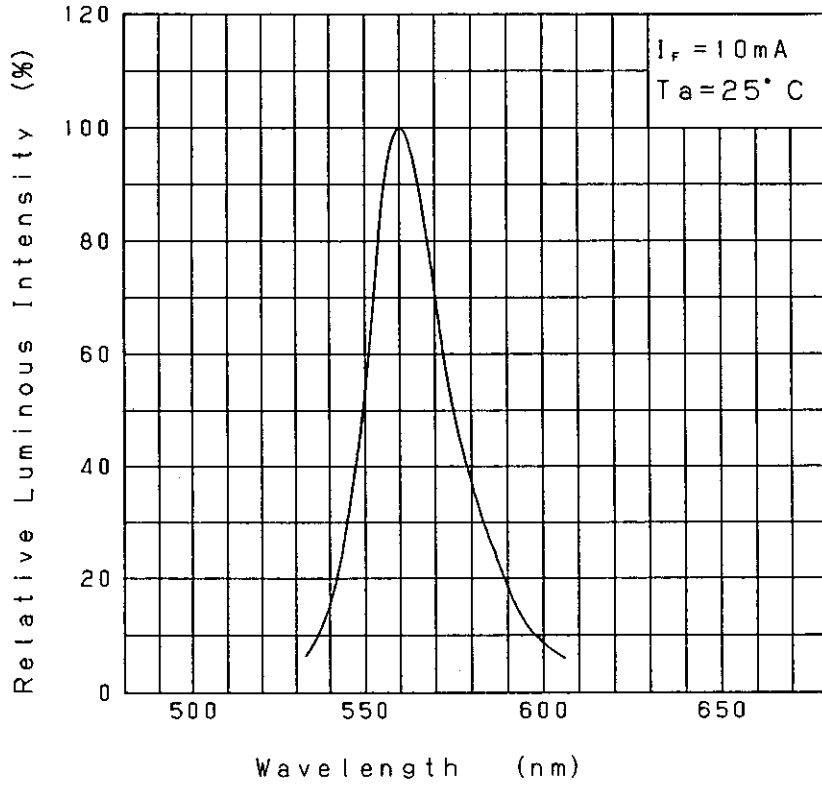
Approved	Checked	Designed

DEVELOPMENT SPECIFICATION

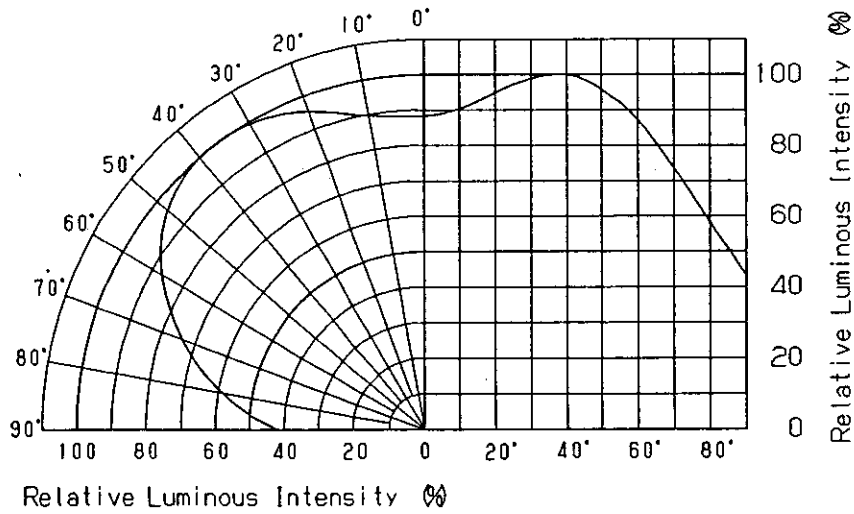
P/N: LN311G84RA

TEMPORARY

Relative Luminous Intensity
Wavelength Characteristics



Directive Characteristics



Oct. 20. 2001