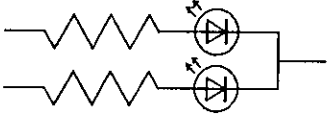
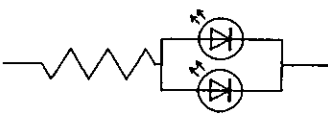
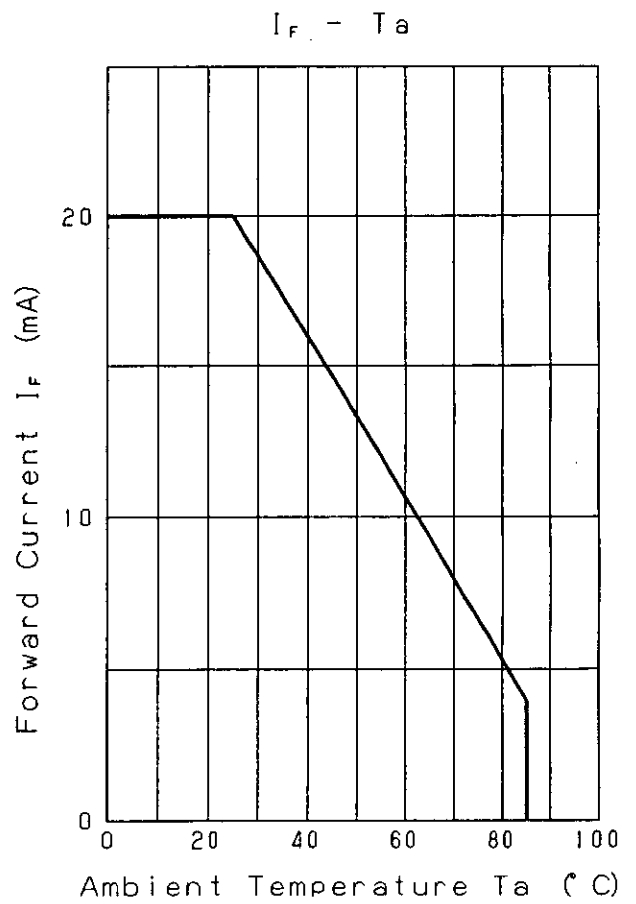
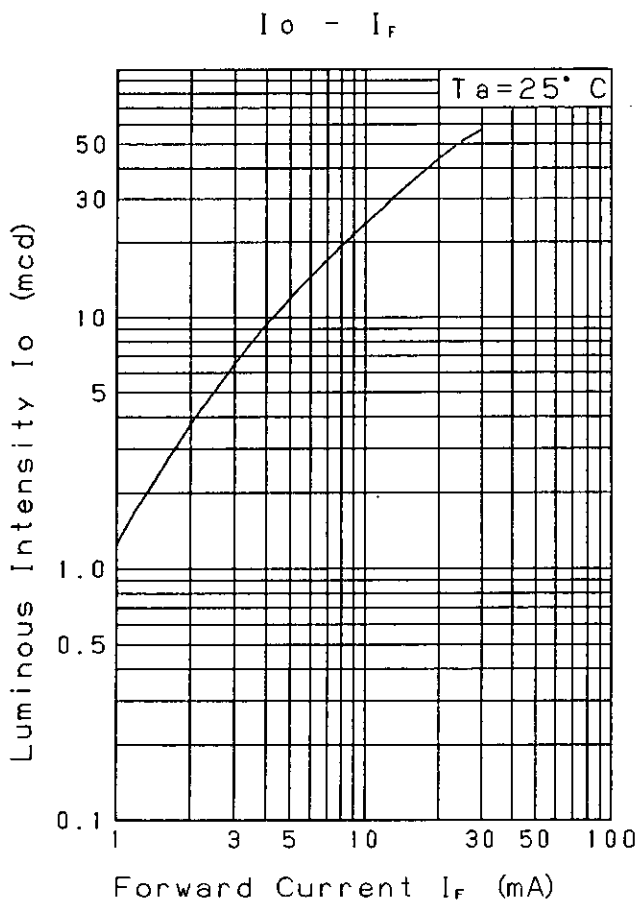
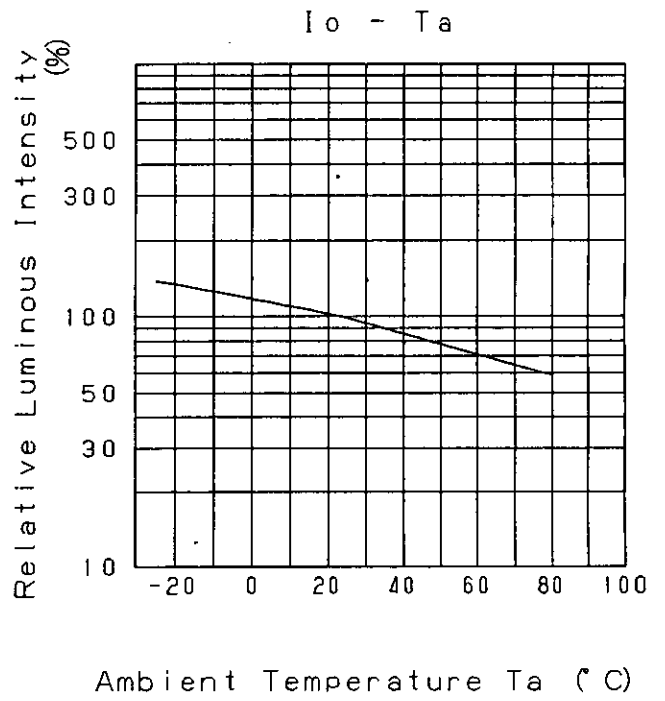
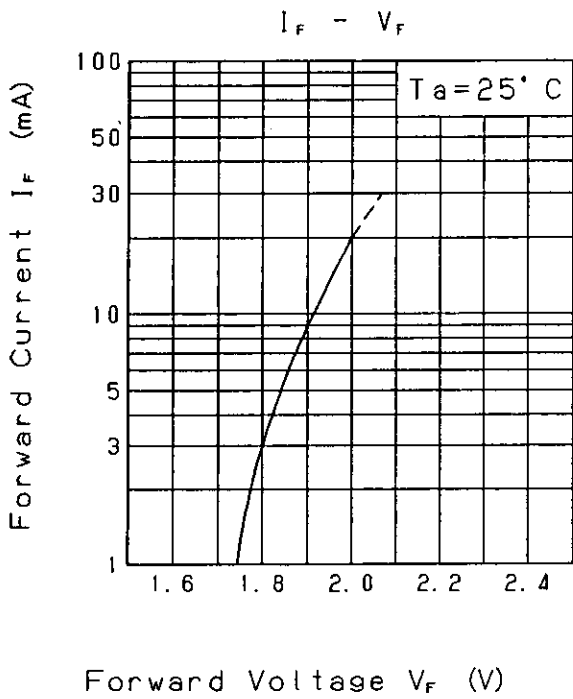


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION					
		<i>K. Shibasaki</i>	Tentative P/N: LNJ210C62RA					
T Y P E			Red Emitting Diode					
APPLICATION			Indicators					
MATERIAL			InGaAlP					
OUTLINE			Attached					
ABSOLUTE MAXIMUM RATINGS			P	*1 $I_{FP}$	$I_{FDC}$	$V_R$	Topr	Tstg
			55	60	20	4	-25~+85	-30~+100
			mW	mA	mA	V	°C	°C
CONDITION			$T_a = 25 \pm 3$ °C					
Test Specification								
Item	Symbol	Condition	Typ.	Limit		Unit		
				Min	Max			
Forward Voltage	$V_F$	$I_F = 10$ mA	1.92		2.5	V		
Reverse Leakage Current	$I_R$	$V_R = 4$ V		12	100	$\mu$ A		
Luminous Intensity *2	$I_O$	$I_F = 10$ mA DC	23	12		mcd		
Peak Emission Wavelength	$\lambda_P$	$I_F = 10$ mA DC	645			nm		
Spectral Line Half Width	$\Delta \lambda$	$I_F = 10$ mA DC	15			nm		
<p>*1 · The Condition of <math>I_{FP}</math> 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.</p> <p>*2 Measurement Tolerance is <math>\pm 20\%</math>.</p>								
NOTE								
★1. Terminal: Plated with gold on copper base.								
★2. Beware of destruction by static electricity in handling the LED.								
★3. Package : Clear type.								
★4. Soldering conditions. Refer to Handling note.								
★5. Care should be taken that soldering is done within 3-days after opening the dry package and reel.								
★6. 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)					
Oct. 20. 2001								

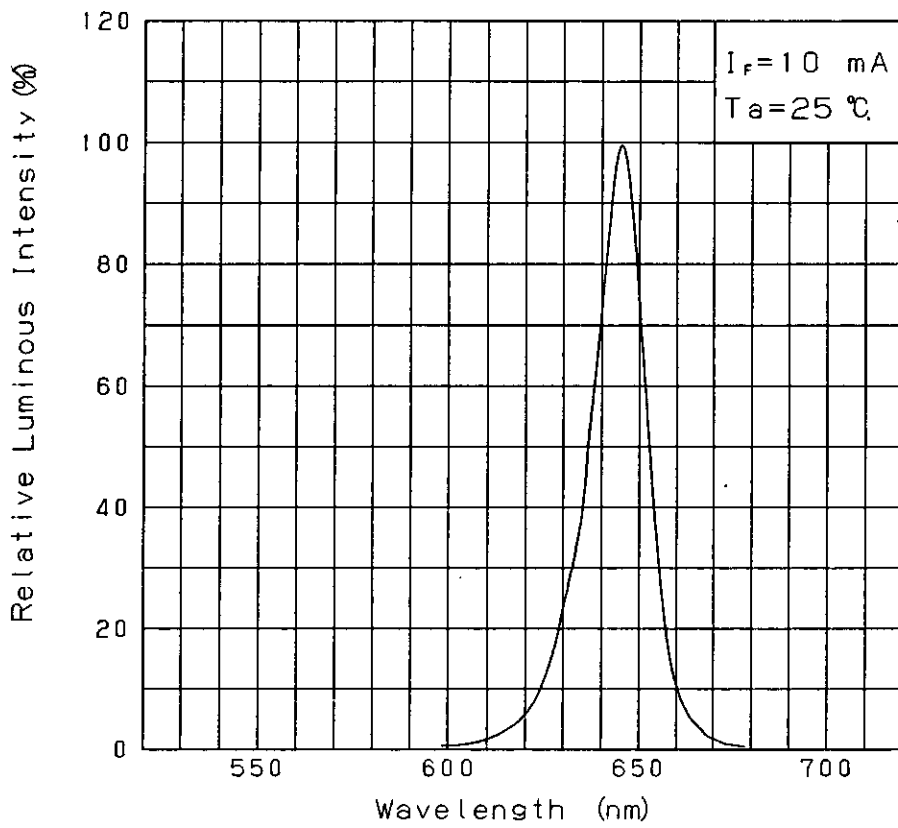
Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
		<i>K. J. ...</i>		Tentative		
			P/N: LNJ210C62RA			



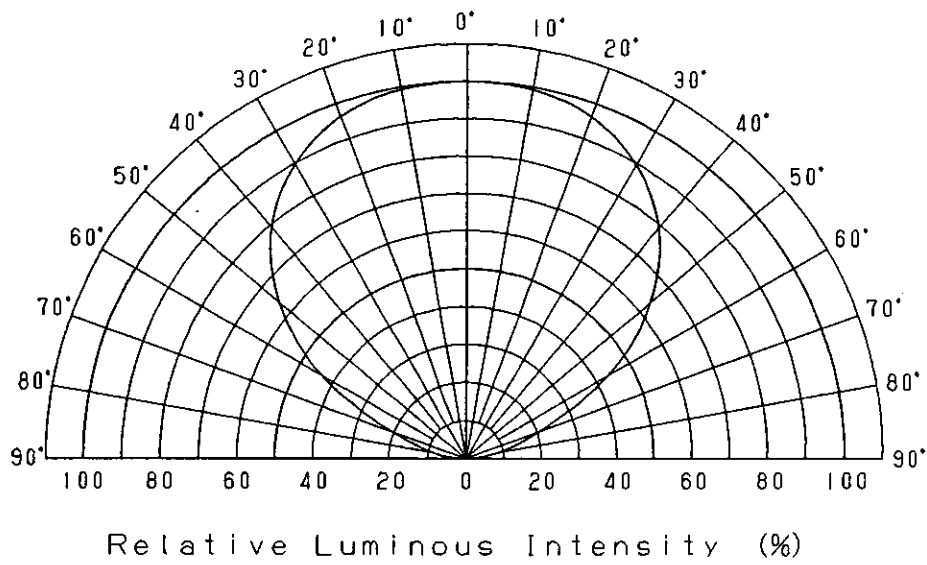
Oct. 20. 2001			

Approved	Checked	Designed <i>K. Nakamura</i>	DEVELOPMENT SPECIFICATION		
			Tentative P/N : LNJ210C62RA		

Relative Luminous Intensity  
Wavelength Characteristics



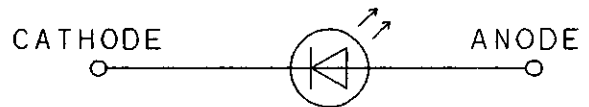
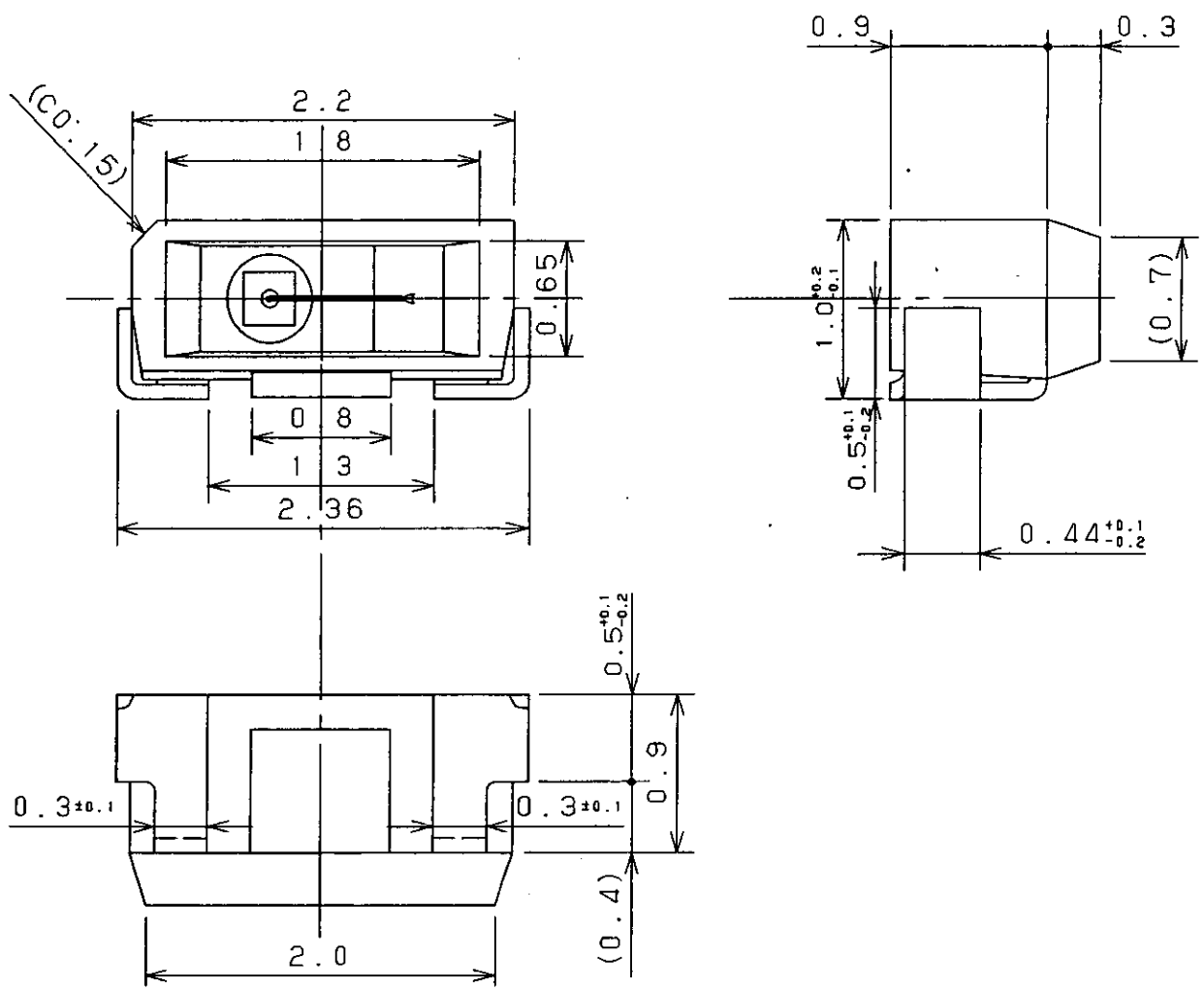
Directive Characteristics



Oct. 20. 2001		

Approved	Checked	Designed
		<i>K. Adachi</i>

DEVELOPMENT SPECIFICATION  
(OUTLINE) Tentative  
P/N: LNJ210C62RA



(NOTE)  
1. Unit: mm  
2. Tolerance unless specified is  $\pm 0.15$ .

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