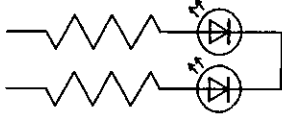
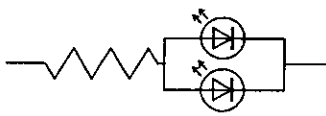
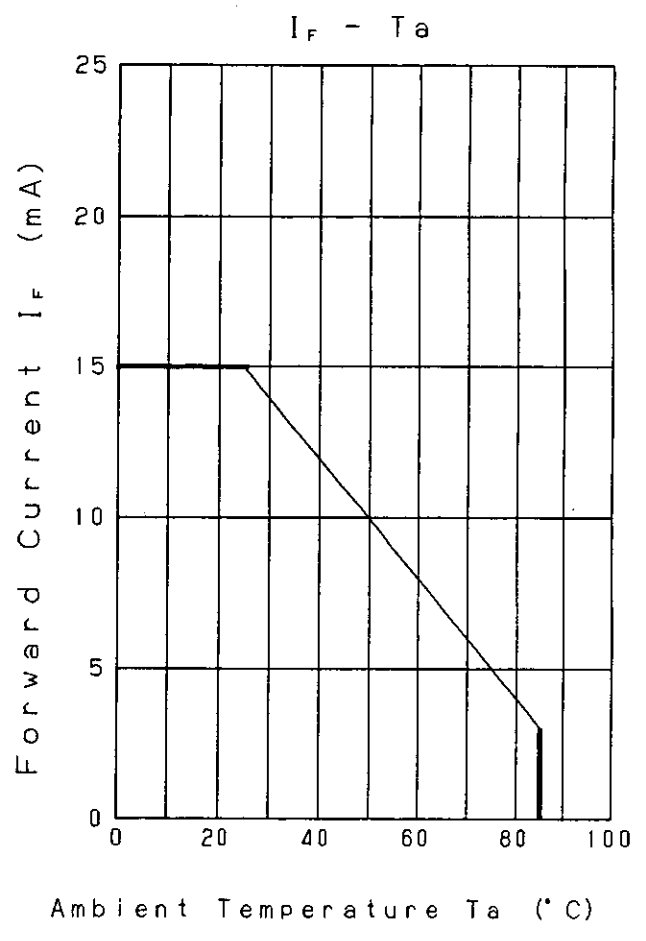
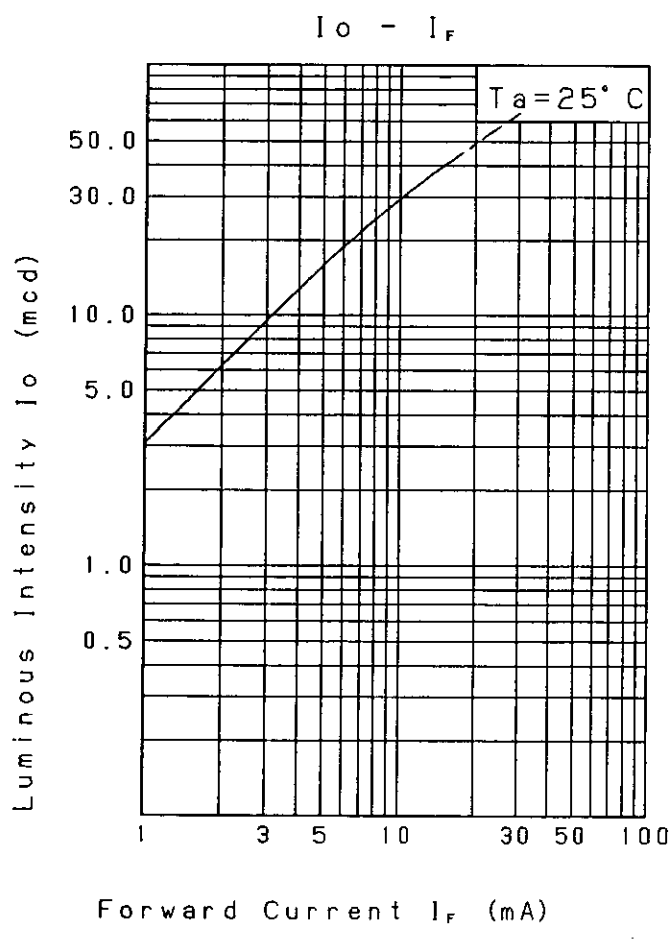
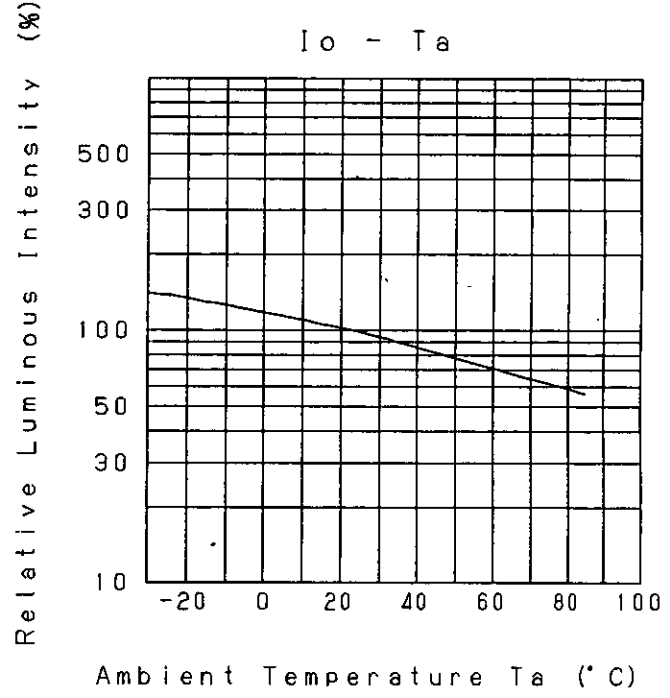
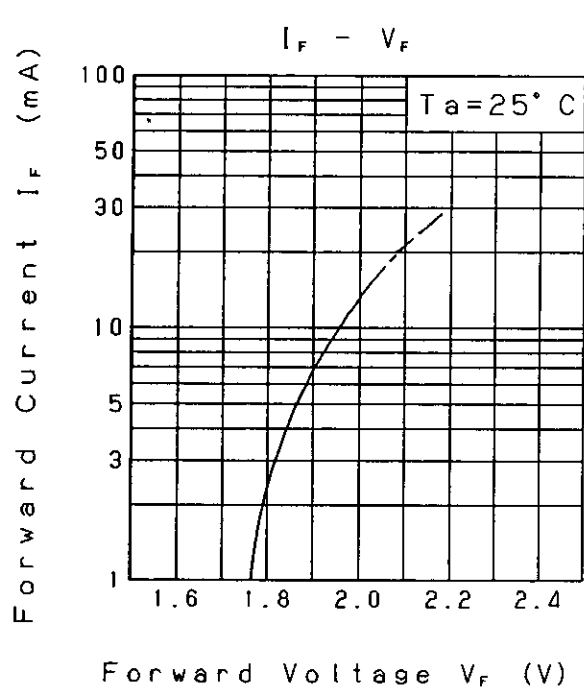


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION							
		<i>K. A. M.</i>	Tentative P/N:LNJ814R88RA							
T	Y	P	E	Orange Light Emitting Diode						
APPLICATION				Indicators						
MATERIAL				InGaAlP						
OUTLINE				Attached						
ABSOLUTE MAXIMUM RATINGS				P	*1 $I_{FP}$	$I_{FDC}$	$V_R$	$T_{opr}$	$T_{stg}$	
				40	50	15	4	-30~+85	-40~+100	
				mW	mA	mA	V	°C	°C	
CONDITION				$T_a = 25 \pm 3^\circ C$						
Test Specification										
I t e m	Symbol	C o n d i t i o n	Typ.	Limit		Unit				
				Min	Max					
Forward Voltage	$V_F$	$I_F = 10 \text{ mA}$	1.95		2.5	V				
Reverse Leakage Current	$I_R$	$V_R = 4 \text{ V}$			100	$\mu A$				
Luminous Intensity *2	$I_O$	$I_F = 10 \text{ mA DC}$	30	16		mc				
Peak Emission Wavelength	$\lambda_p$	$I_F = 10 \text{ mA DC}$	620			nm				
Spectral Line Half Width	$\Delta \lambda$	$I_F = 10 \text{ mA DC}$	17			nm				
<p>*1 · The Condition of <math>I_{FP}</math> 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 <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. Soldering conditions. Refer to Handling note.										
★4. Care should be taken that soldering is done within 7-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.						
Oct. 202001										

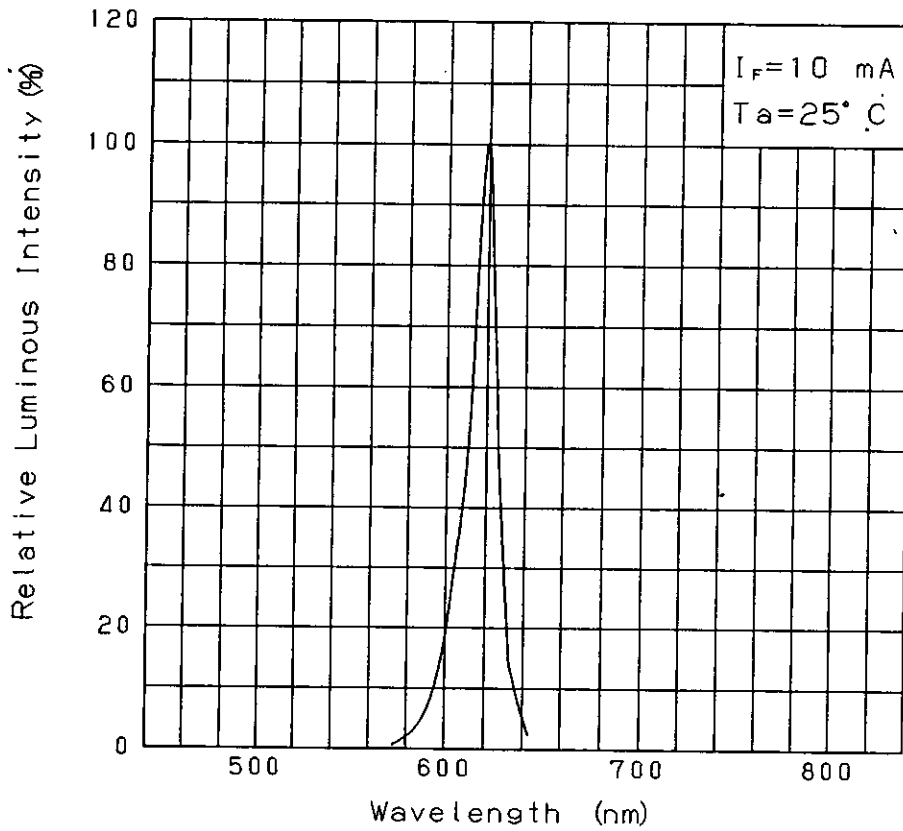
Approved	Checked	Designed <i>K. Sakurai</i>	DEVELOPMENT SPECIFICATION			
			Tentative P/N: LNJ814R88RA			



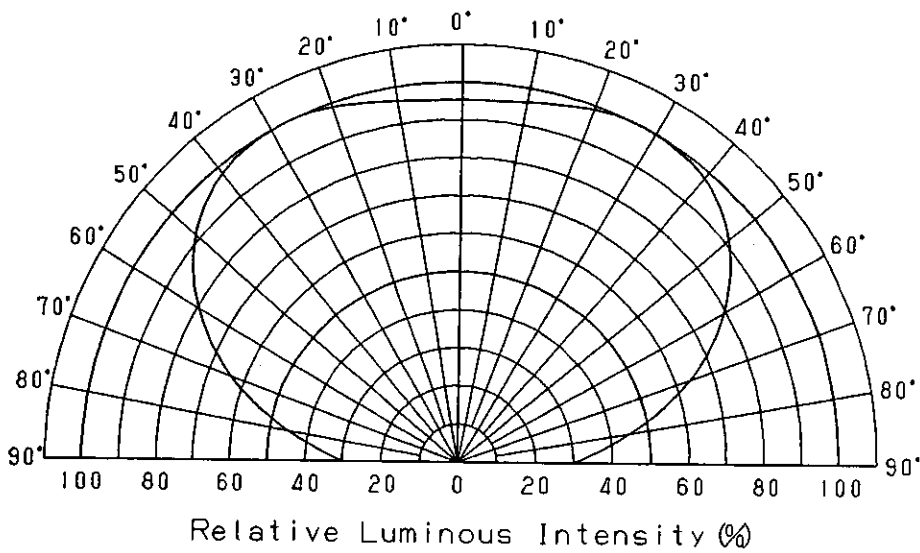
Oct.20.2001			

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
		<i>K. J. [Signature]</i>		Tentative P/N : LN J814R88RA		

Relative Luminous Intensity  
Wavelength Characteristics

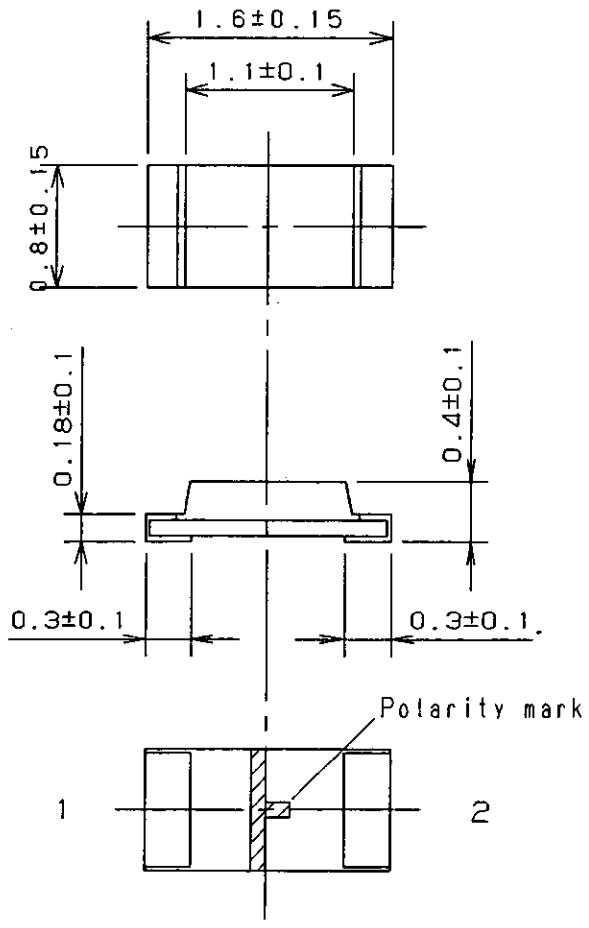


Directive Characteristics

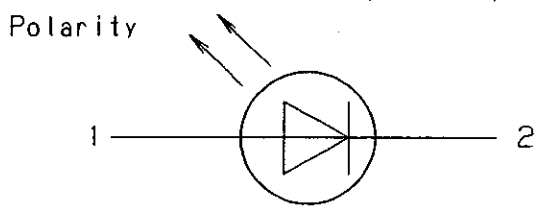
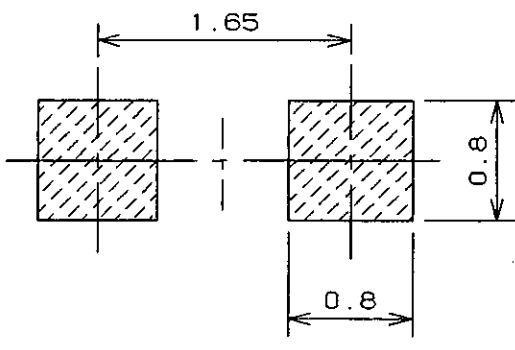


Oct. 20. 2001

Approved	Checked	Designed <i>K. Ishikawa</i>	DEVELOPMENT SPECIFICATION (OUTLINE) Tentative P/N:LNJ814R88RA		



Recommended Land Layout



1: Anode  
2: Cathode

(NOTE)

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

Oct. 20. 2001			