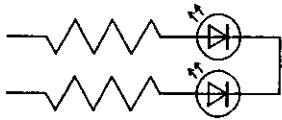
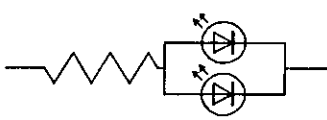
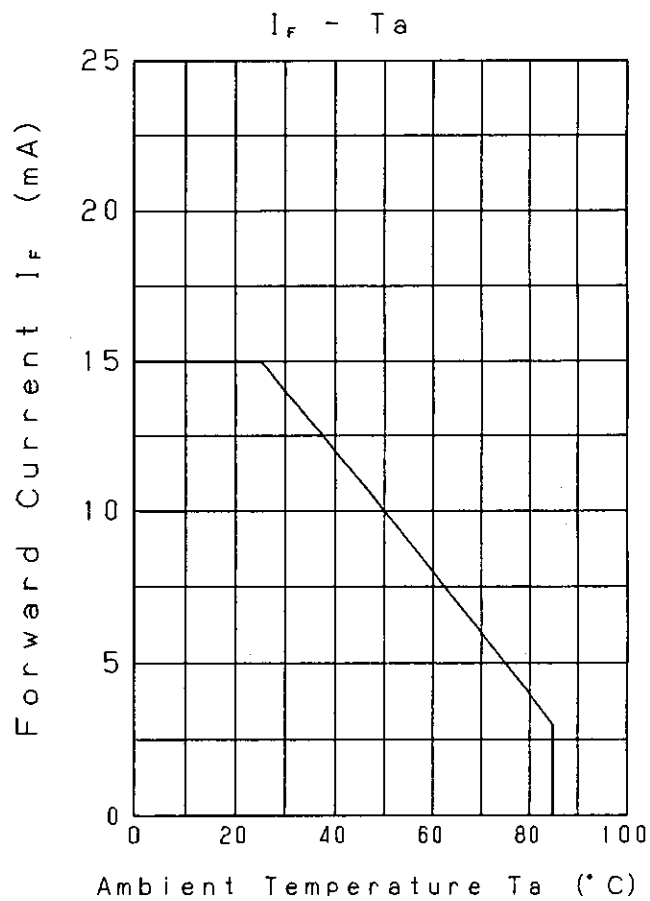
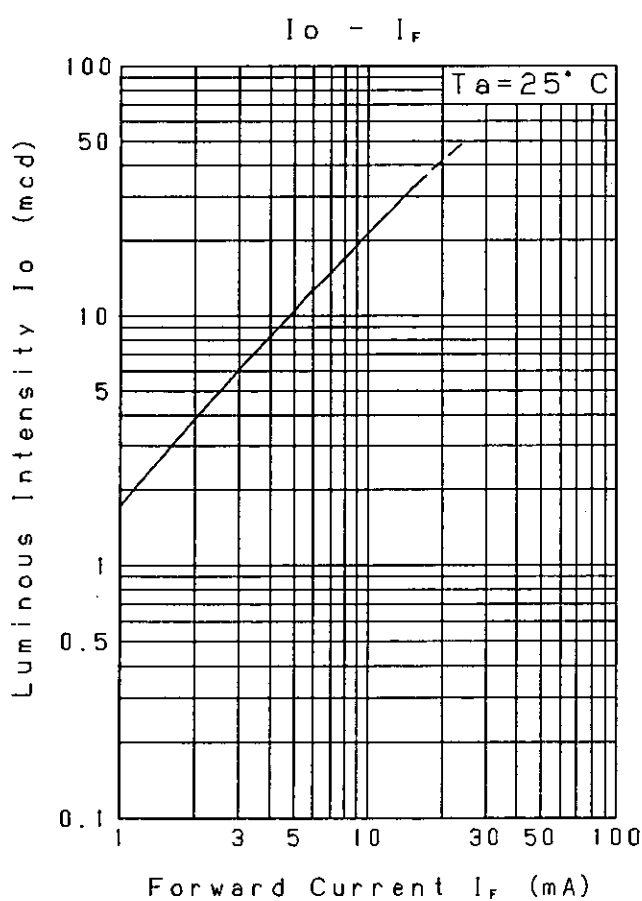
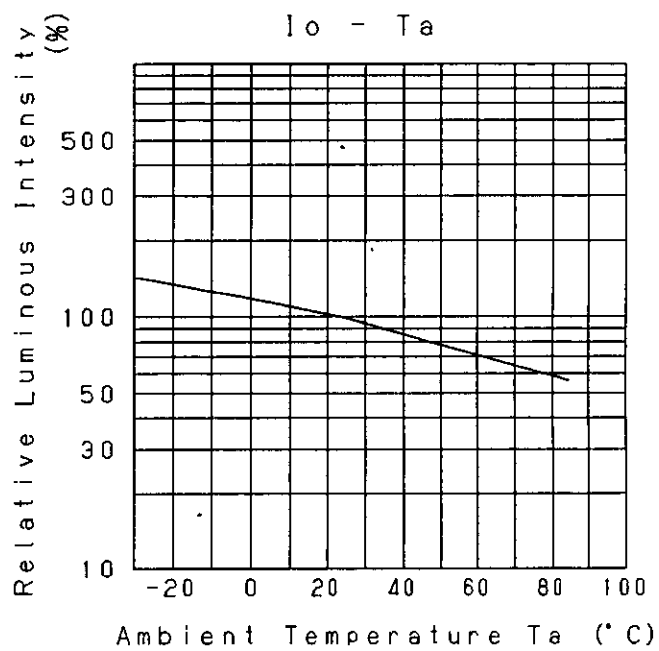
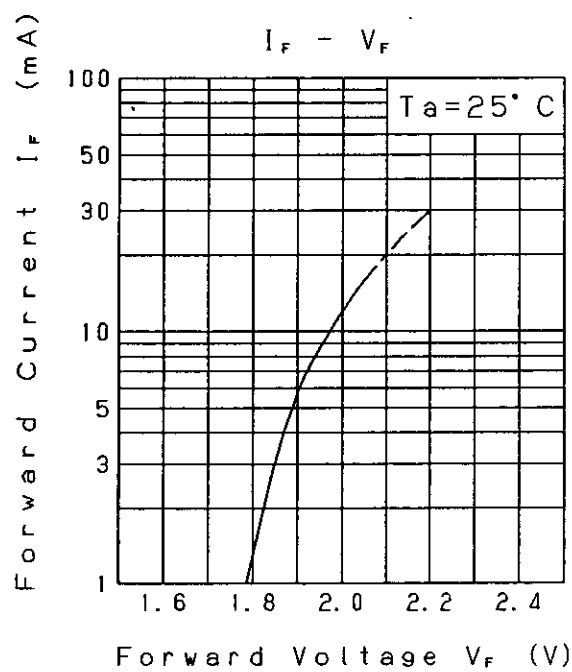
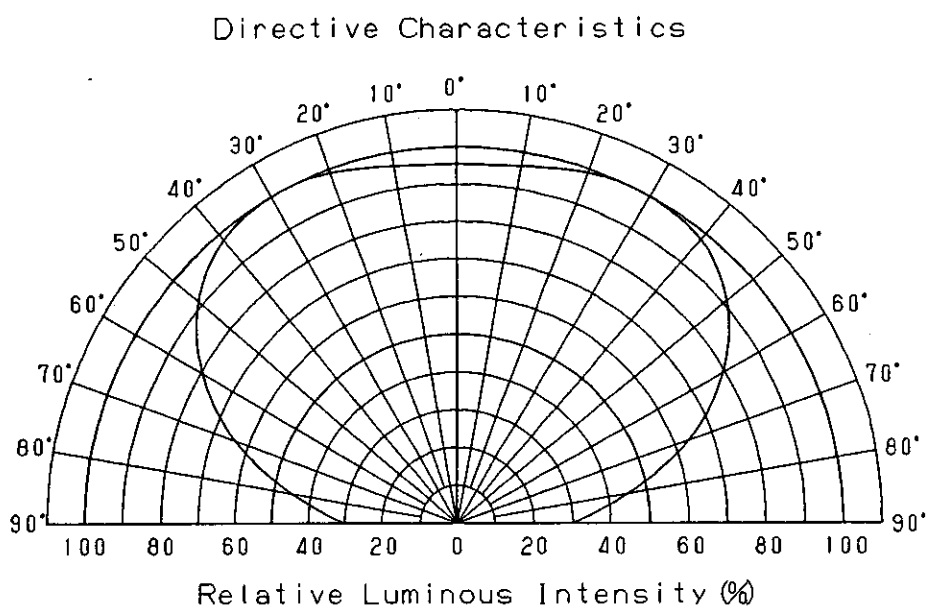
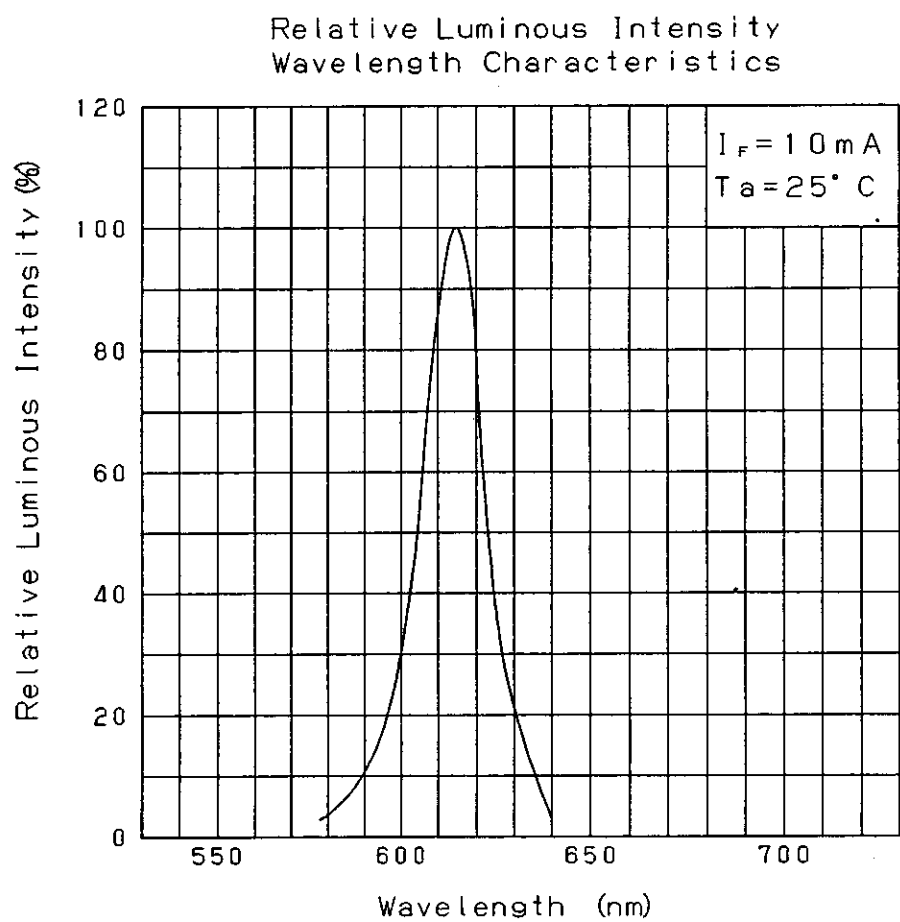


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION							
		<i>K. Sakurai</i>	Tentative P/N:LNJ814K87RA							
TYPE			Soft-Orange Light Emitting Diode							
APPLICATION			Indicators							
MATERIAL			InGaAlP							
OUTLINE			Attached							
ABSOLUTE MAXIMUM RATINGS			P	*1 I _{FP}	I _{FDC}	V _R	Topr	Tstg		
			40	50	15	4	-30~+85	-40~+100		
			mW	mA	mA	V	℃	℃		
CONDITION			T _a = 25 ± 3℃							
Test Specification										
Item	Symbol	Condition	Typ.	Limit		Unit				
				Min	Max					
Forward Voltage	V _F	I _F = 10 mA	1.95		2.5	V				
Reverse Leakage Current	I _R	V _R = 4 V			100	μA				
Luminous Intensity *2	I _O	I _F = 10 mA DC	21	8.7		mcd				
Peak Emission Wavelength	λ _p	I _F = 10 mA DC	615			nm				
Spectral Line Half Width	Δλ	I _F = 10 mA DC	20			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. 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.				
(A)			(B)							
Oct. 20, 2001										

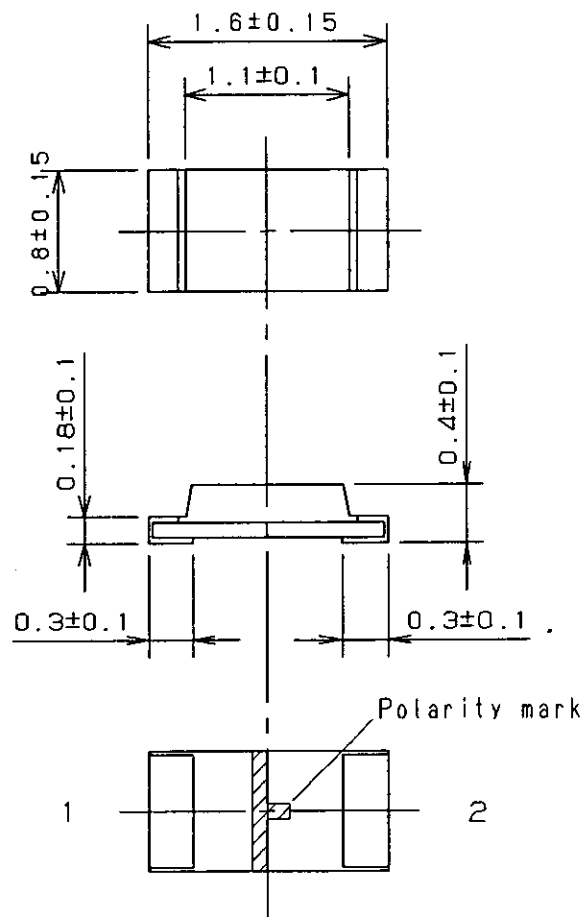


Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
		<i>K. Nakamura</i>	Tentative P/N : LNJ814K87RA			

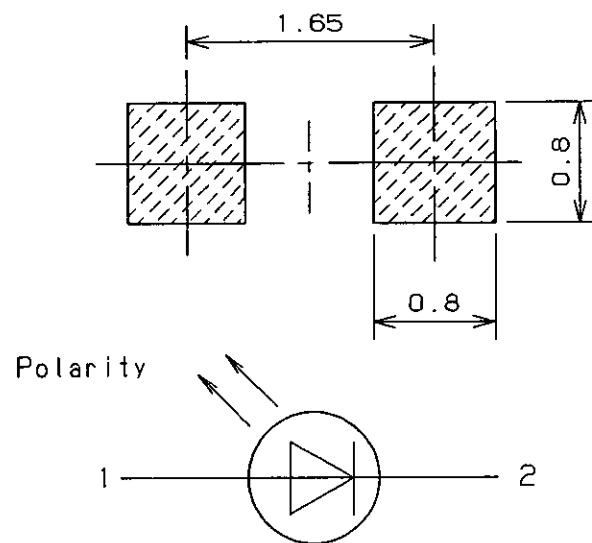


Oct. 20. 2001			

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
		<i>K. Shibata</i>	(OUTLINE)			
			Tentative P/N:LNJ814K87RA			



Recommended Land Layout



1: Anode
2: Cathode

(NOTE)

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

Oct. 20. 2001			