

Approved	Checked	Designed	DEVELOPMENT SPECIFICATION			
		<i>K. A. Akashi</i>	Tentative P/N: LNJ208R82RA			

T Y P E	Red Light Emitting Diode					
APPLICATION	Indicators					
MATERIAL	InGaAlP					
OUTLINE	Attached					
ABSOLUTE MAXIMUM RATINGS	P	*1 I <sub>FP</sub>	I <sub>FDC</sub>	V <sub>R</sub>	Topr	Tstg
	55	60	20	4	-25~+85	-40~+100
	mW	mA	mA	V	°C	°C
CONDITION	T <sub>a</sub> = 25 ± 3 °C					

Test Specification

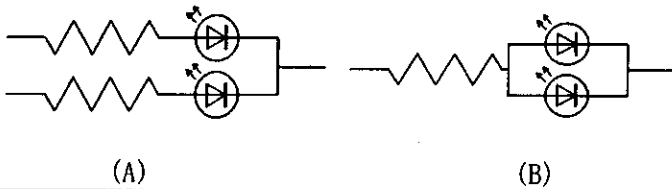
Item	Symbol	Condition	Typ.	Limit		Unit
				Min	Max	
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA	1.92		2.5	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> = 4 V			100	μA
Luminous Intensity *2	I <sub>O</sub>	I <sub>F</sub> = 10 mA DC	15	8		mcd
Peak Emission Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 10 mA DC	645			nm
Spectral Line Half Width	Δλ	I <sub>F</sub> = 10 mA DC	22			nm

- \*1 · The Condition of I<sub>FP</sub> 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

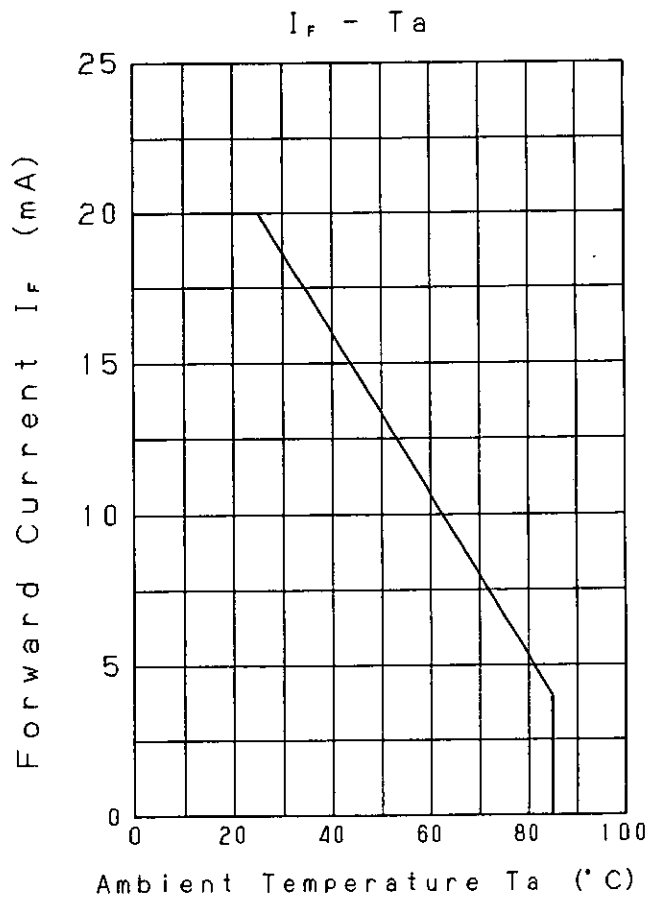
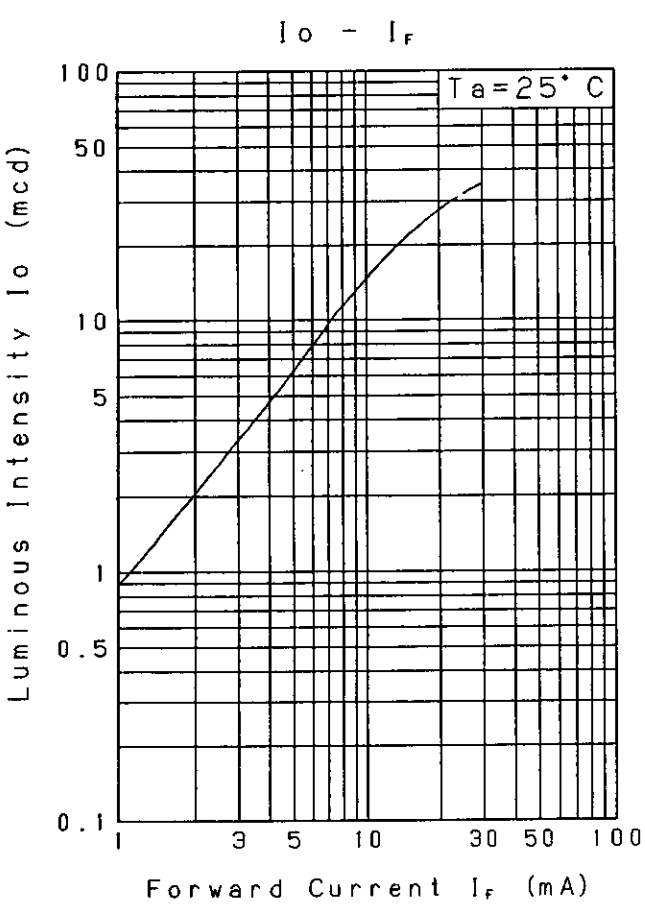
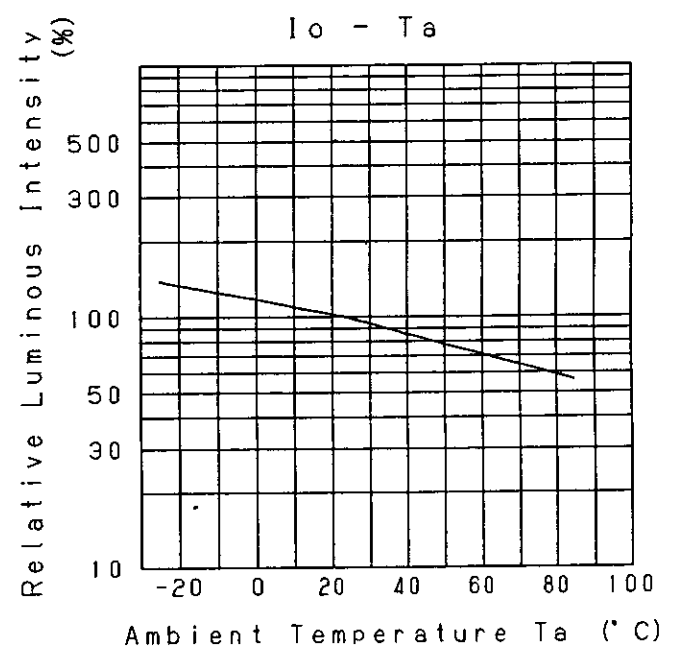
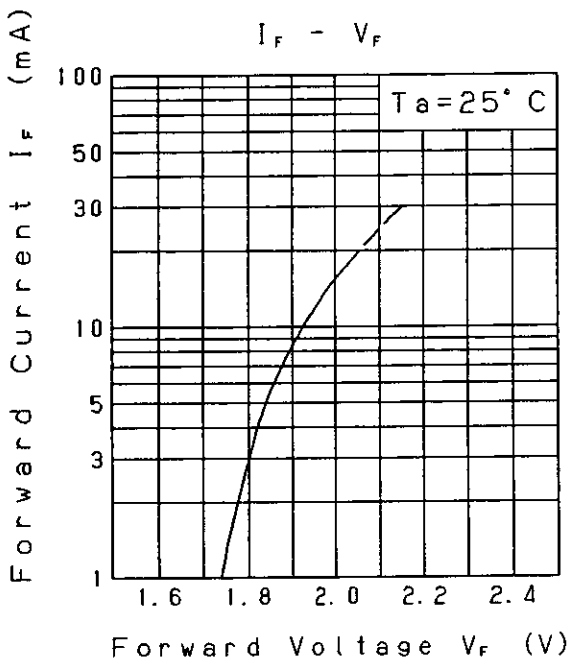
- ★1. Terminal: Plated with gold on copper base.
- ★2. Beware of destruction by static electricity in handling the LED.
- ★3. Soldering conditions.  
Refer to Handling note.
- ★4. Care should be taken that soldering is done within 7-days after opening the dry package and reel.

★5. Circuit to operate LED.



- (A) Recommended circuit.
- (B) The difference of brightness between the LED could be found due to the V<sub>F</sub> characteristics of each LED.

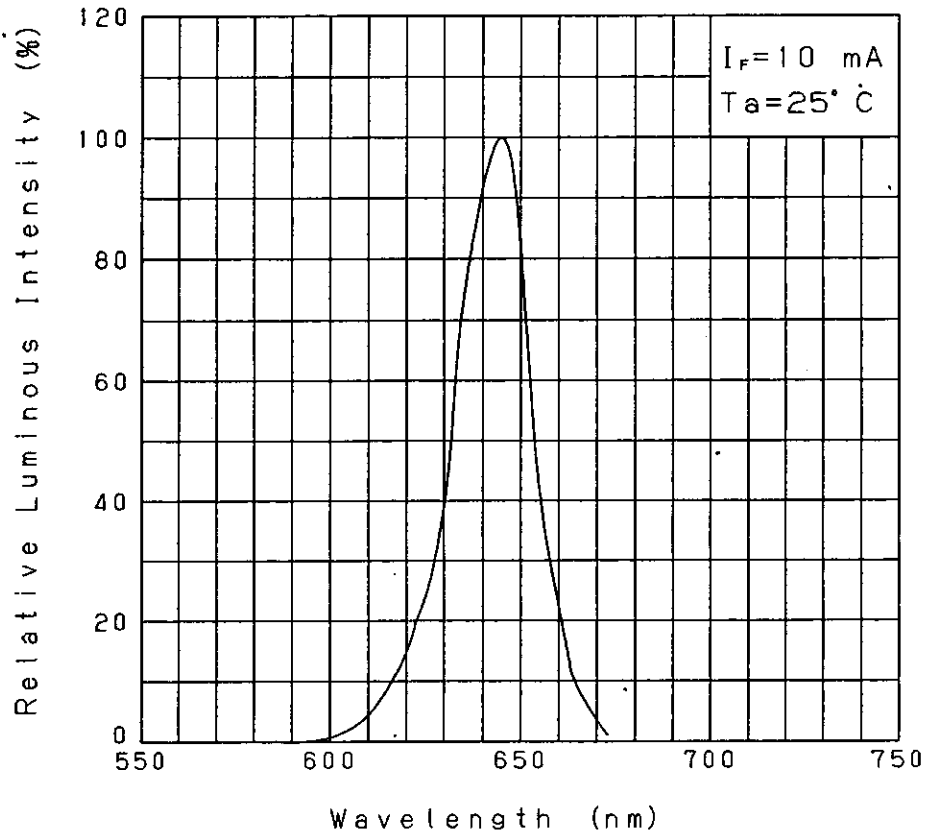
Oct. 20. 2001



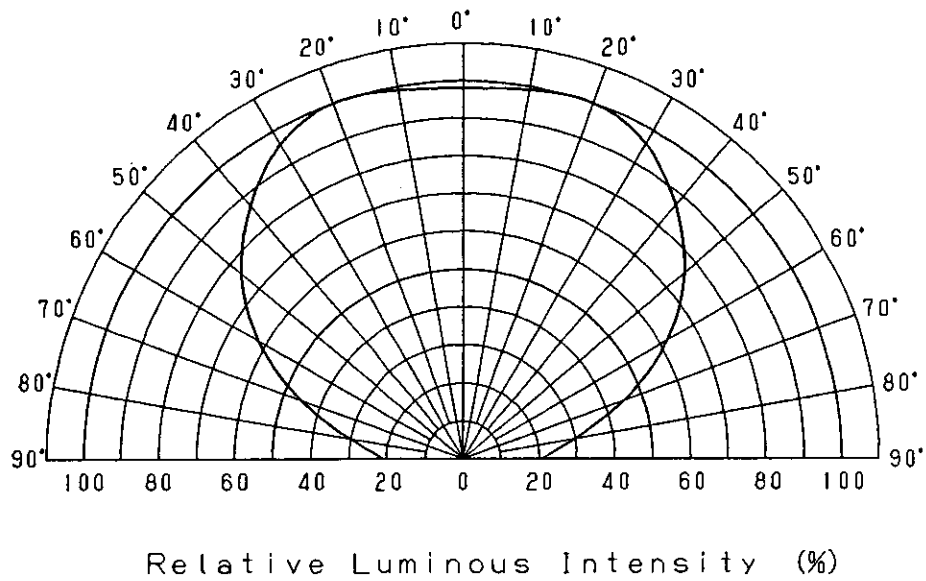
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Approved	Checked	Designed	DEVELOPMENT SPECIFICATION Tentative P/N:LNJ208R82RA			
		<i>K. Sakurai</i>				

Relative Luminous Intensity  
Wavelength Characteristics

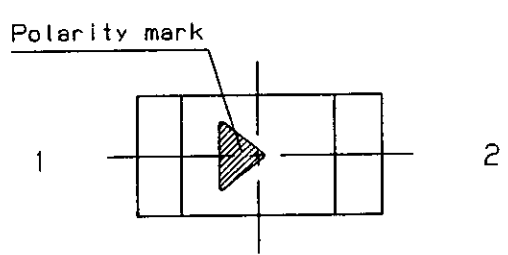
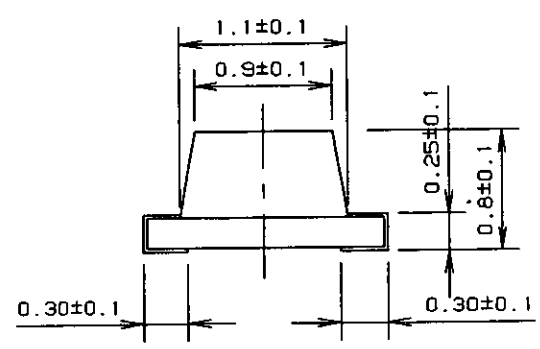
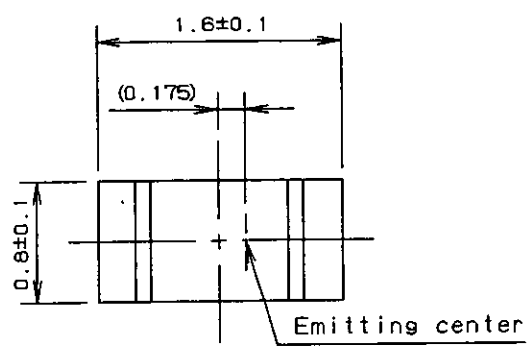


Directive Characteristics

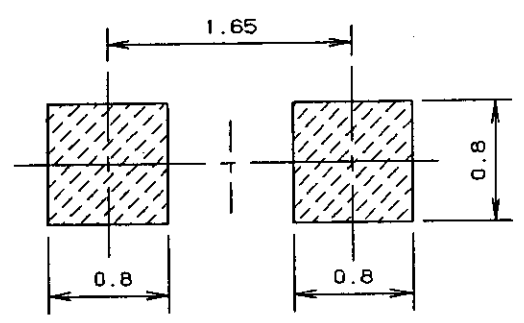


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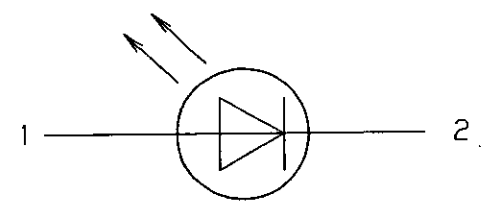
Approved	Checked	Designed <i>K. Ishida</i>	DEVELOPMENT SPECIFICATION	
			Tentative	
			P/N:LNJ208R82RA	



Recommended Land Layout



Polarity



1: Anode  
2: Cathode

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

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