

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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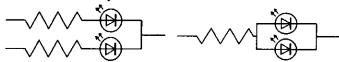


Checked Approved Designed DEVELOPMENT SPECIFICATION Tentative P/N:LNJ208R82RA Red Light Emitting Diode APPLICATION Indicators MATERIAL InGaAlP OUTL INE Attached *1 I_{FP} ABSOLUT E P I_{FDC} Topr Tstg MAXIMUM 55 $-25 \sim +85$ 60 20 4 $-40 \sim +100$ RATINGS mW ٧ mΑ $^{\circ}$ mΑ $^{\circ}$ CONDITION T a = 2 5 ± 3 ℃ Test Specification Limit Item Unit Condition Symbol Тур. Min Max Forward Voltage V_F $I_F = 10 \text{ mA}$ V 1.92 2.5Reverse Leakage Current $V_R = 4 V$ I_R 100 μΑ Luminous Intensity *2 Ιo $I_F = 10 \text{ mA} DC$ 15 8 mcd Peak Emission Wavelength λp $I_F = 10 \text{ mA} \text{ DC}$ 645 nm Spectral Line Half Width Δλ $I_F = 10 \text{ mA}$ DC 22 nm *1 \cdot 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 $\pm 20\%$.

NOTE

- ★1. Terminal:Plated with gold on copper base.
- $\bigstar 2$. 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

Panasonic

KAGOSHIMA MATUSHITA ELECTPONICS CO., LTD

KB-II-022-018B

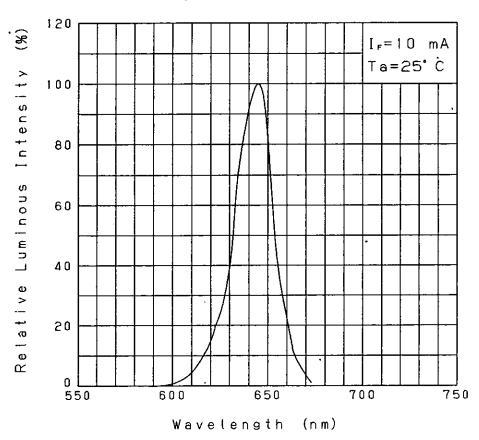
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<u></u>		K-700	P/N:L	NJ208	R82RA			_ _	
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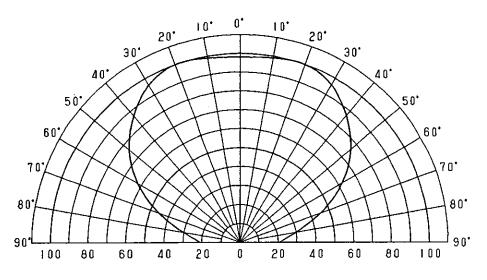
KAGOSHIMA MATSUSHITA ELECTRONICS CO. LTD. KB-H-022-018B

Approved	Checked [Designed) DEVELOPMENT	SPECIFICATION		
		1 tout	Tentative P/N:LNJ208R82RA			
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Relative Luminous Intensity Wavelength Characteristics



Directive Characteristics



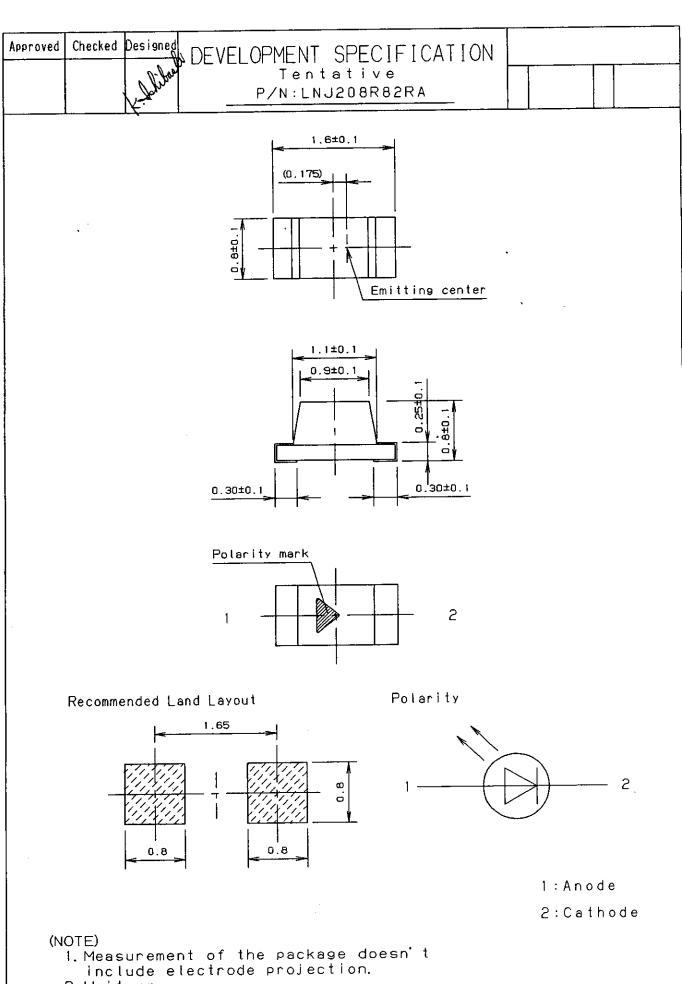
Relative Luminous Intensity (%)

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Oct.20.2001

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2.Unit:mm

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