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

| | | | | | | | |
|--|--|-------------|-----------|-------|-----------|-----------|--|
| T Y P E | Red Light Emitting Diode | | | | | | |
| A P P L I C A T I O N | Indicators | | | | | | |
| M A T E R I A L | InGaAlP | | | | | | |
| O U T L I N E | Attached | | | | | | |
| A B S O L U T E M A X I M U M R A T I N G S | P | *1 I_{FP} | I_{FDC} | V_R | T_{opr} | T_{stg} | |
| | 55 | 60 | 20 | 4 | -25~+85 | -40~+100 | |
| | mW | mA | mA | V | °C | °C | |
| C O N D I T I O N | $T_a = 25 \pm 3 \text{ } ^\circ\text{C}$ | | | | | | |

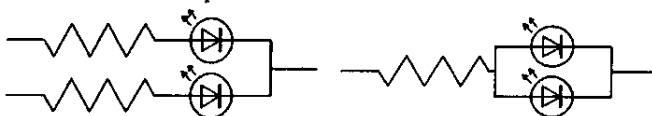
Test Specification

| Item | Symbol | Condition | Typ. | Limit | | Unit |
|--------------------------|-----------------|--------------------------|------|-------|-----|---------------|
| | | | | Min | Max | |
| Forward Voltage | V_F | $I_F = 10 \text{ mA}$ | 1.92 | | 2.5 | V |
| Reverse Leakage Current | I_R | $V_R = 4 \text{ V}$ | | | 100 | μA |
| Luminous Intensity *2 | I_O | $I_F = 10 \text{ mA DC}$ | 15 | 8 | | mcad |
| Peak Emission Wavelength | λ_p | $I_F = 10 \text{ mA DC}$ | 645 | | | nm |
| Spectral Line Half Width | $\Delta\lambda$ | $I_F = 10 \text{ mA DC}$ | 22 | | | 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 $\pm 20\%$.

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.



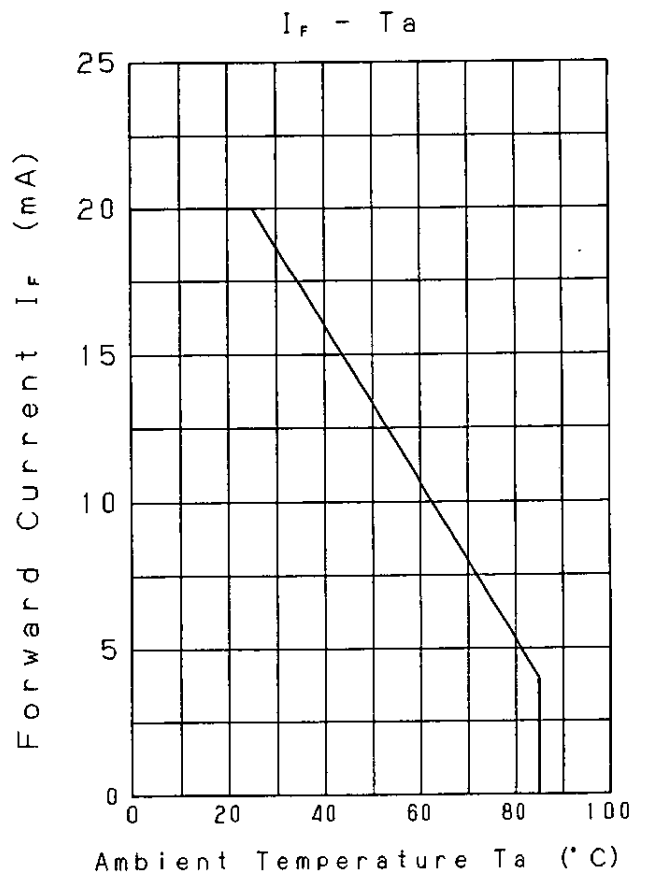
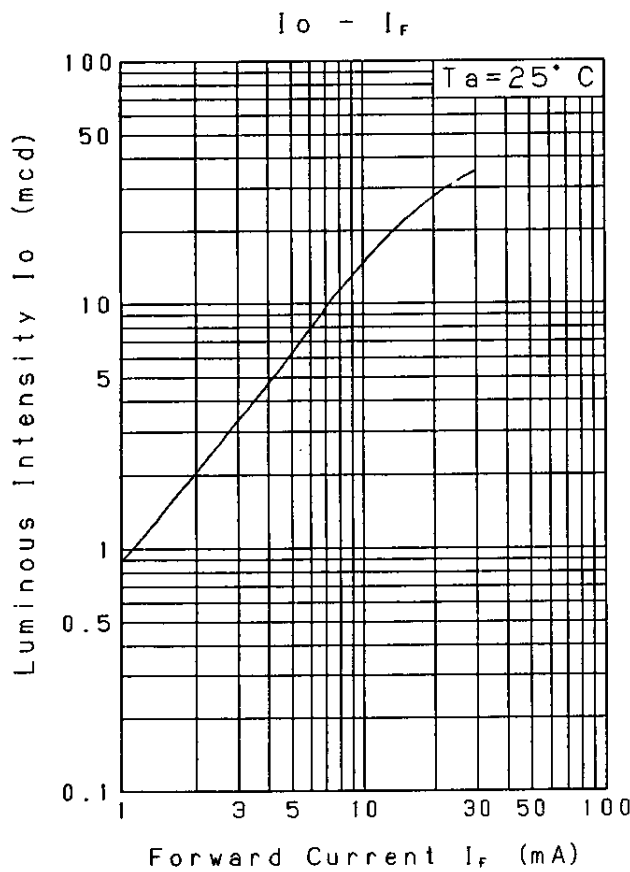
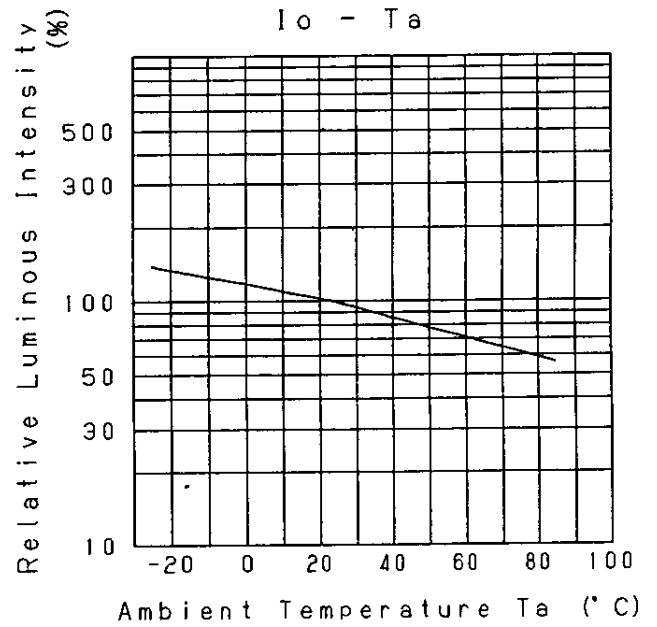
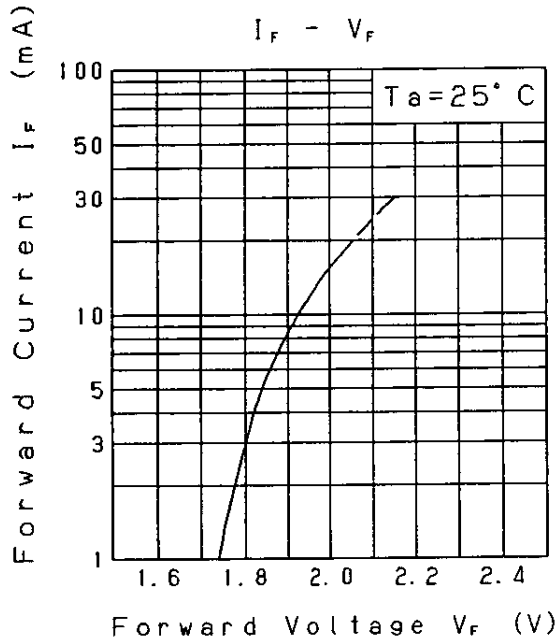
(A)

(B)

- (A) Recommended circuit.
- (B) The difference of brightness between the LED could be found due to the V_f characteristics of each LED.

| | | | |
|---------------|--|--|--|
| Oct. 20. 2001 | | | |
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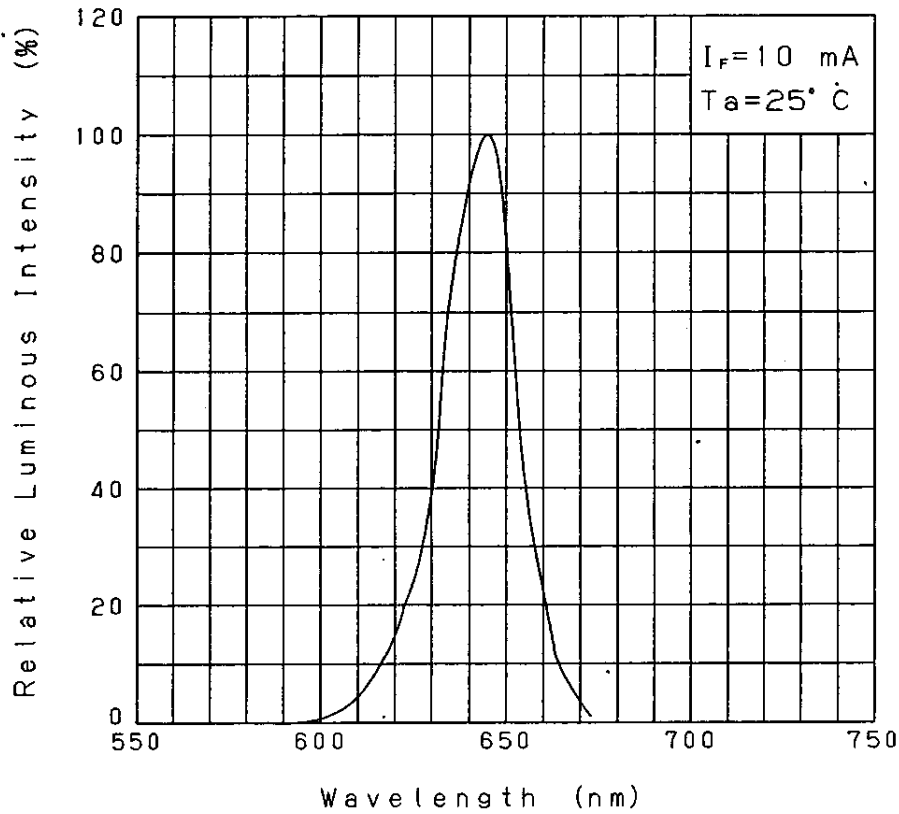
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|----------|---------|---------------------------------|---------------------------|--|
| Approved | Checked | Designed <i>K. A. Akashi</i> | DEVELOPMENT SPECIFICATION | |
| | | | Tentative | |
| | | | P/N: LNJ208R82RA | |



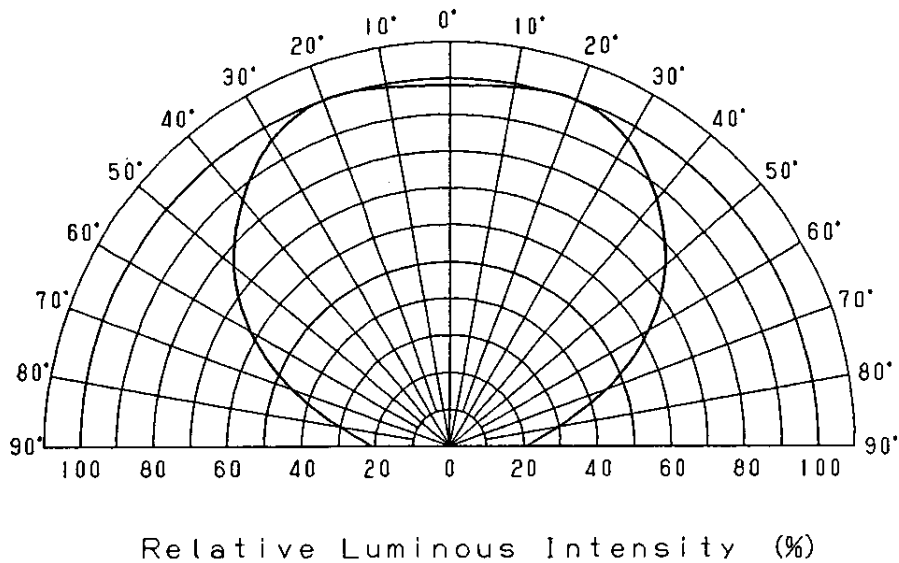
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| | | <i>K. Sakurai</i> | | | | |

Relative Luminous Intensity
Wavelength Characteristics

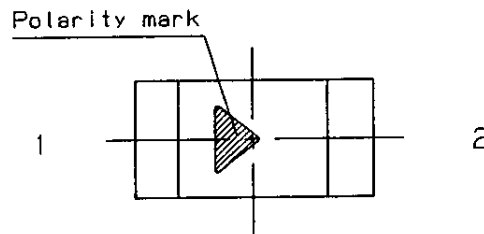
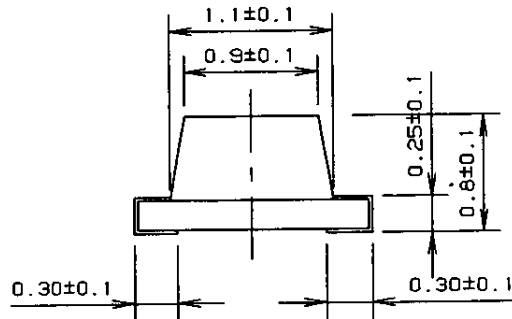
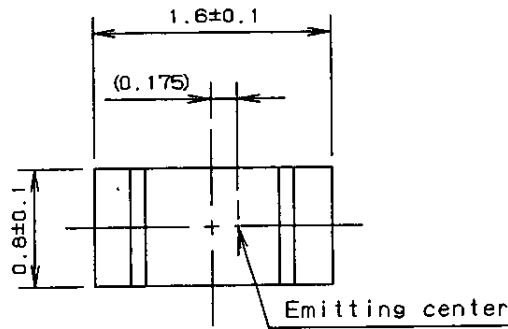


Directive Characteristics

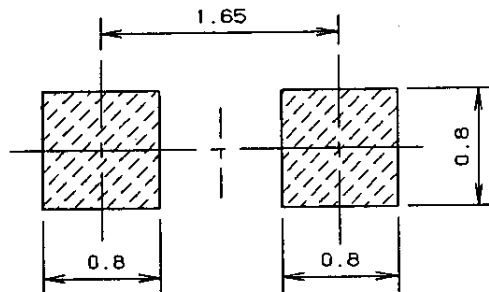


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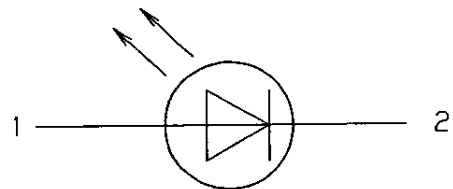
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| | | <i>K. Nakamura</i> | | | | |



Recommended Land Layout



Polarity



1: Anode
2: Cathode

(NOTE)

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

Oct. 20. 2001