

| | | | | | | | |
|----------|---------|------------------|---------------------------|------------------------------|--|--|--|
| Approved | Checked | Designed | DEVELOPMENT SPECIFICATION | | | | |
| | | <i>K. J. ...</i> | | Tentative P/N:LNJ412K84RA | | | |

| | | | | | | | |
|--------------------------------|----------------------------|--------------------|------------------|----------------|---------|----------|--|
| T Y P E | Amber Light Emitting Diode | | | | | | |
| APPLICATION | Indicators | | | | | | |
| MATERIAL | InGaAlP | | | | | | |
| OUTLINE | Attached | | | | | | |
| ABSOLUTE MAXIMUM RATINGS | P | *1 I _{FP} | I _{FDC} | V _R | Topr | Tstg | |
| | 55 | 60 | 20 | 4 | -30~+85 | -40~+100 | |
| | mW | mA | mA | V | °C | °C | |
| CONDITION | T _a = 25 ± 3 °C | | | | | | |

Test Specification

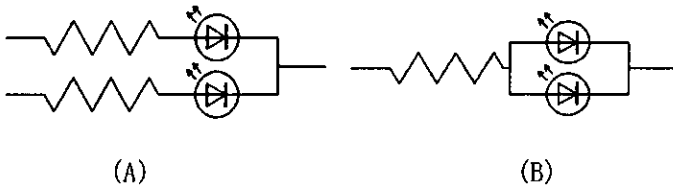
| Item | Symbol | Condition | Typ. | Limit | | Unit |
|--------------------------|----------------|---------------------------|------|-------|-----|------|
| | | | | Min | Max | |
| Forward Voltage | V _F | I _F = 10 mA | 2.1 | | 2.5 | V |
| Reverse Leakage Current | I _R | V _R = 4 V | | | 100 | μA |
| Luminous Intensity *2 | I _O | I _F = 10 mA DC | 26 | 14 | | mcd |
| Peak Emission Wavelength | λ _p | I _F = 10 mA DC | 595 | | | nm |
| Spectral Line Half Width | Δλ | I _F = 10 mA DC | 15 | | | 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

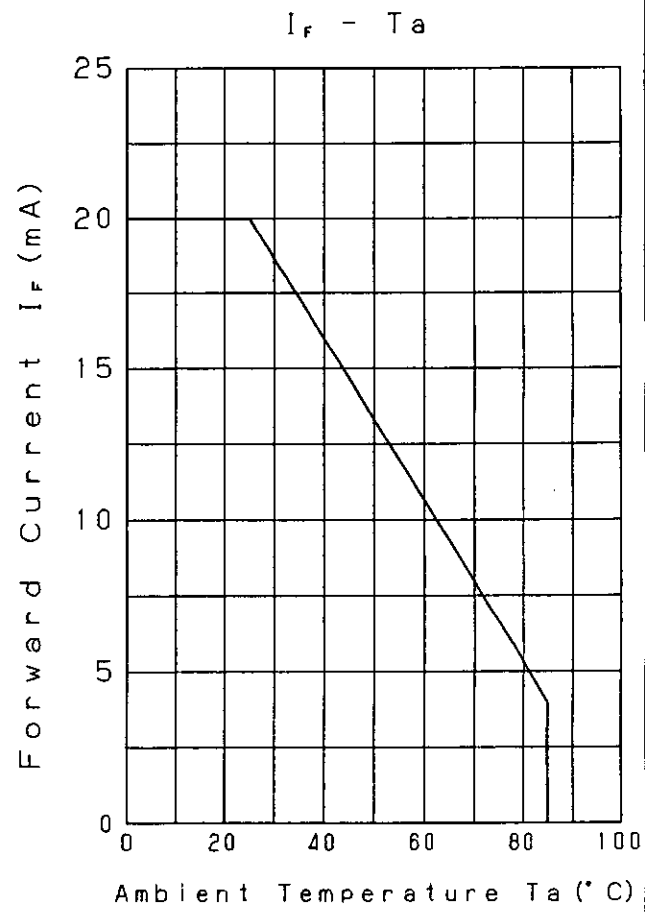
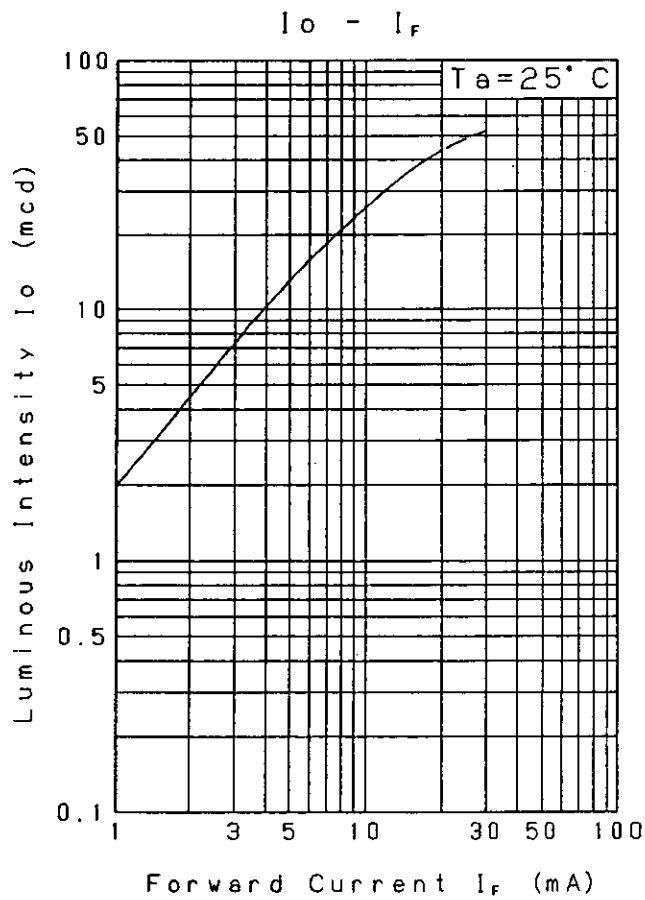
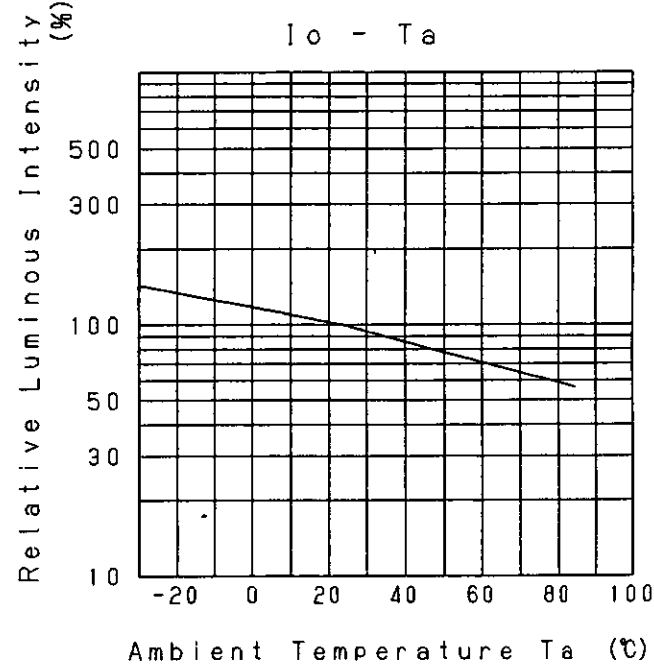
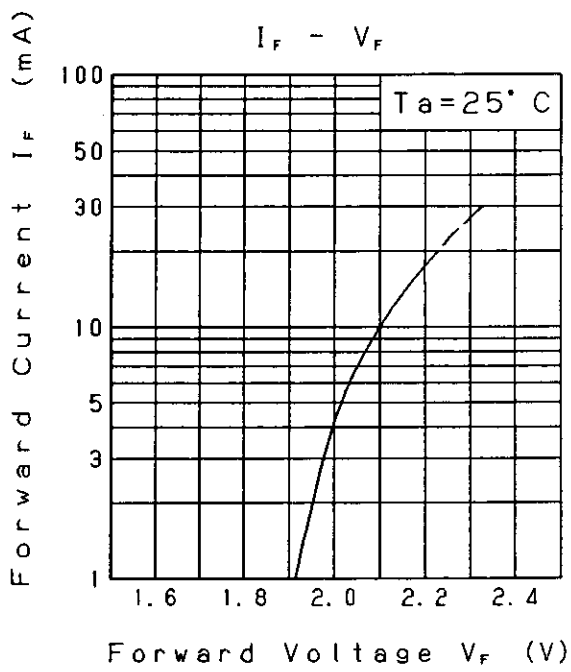
- ★1. Terminal:Plated with gold on copper base.
- ★2. Beware of destruction by static electricity in handling the LED.
- ★3. Soldering conditions.
Refer to Handling note.
- ★4. Care should be taken that soldering is done within 7-days after opening the dry package and reel.

★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.

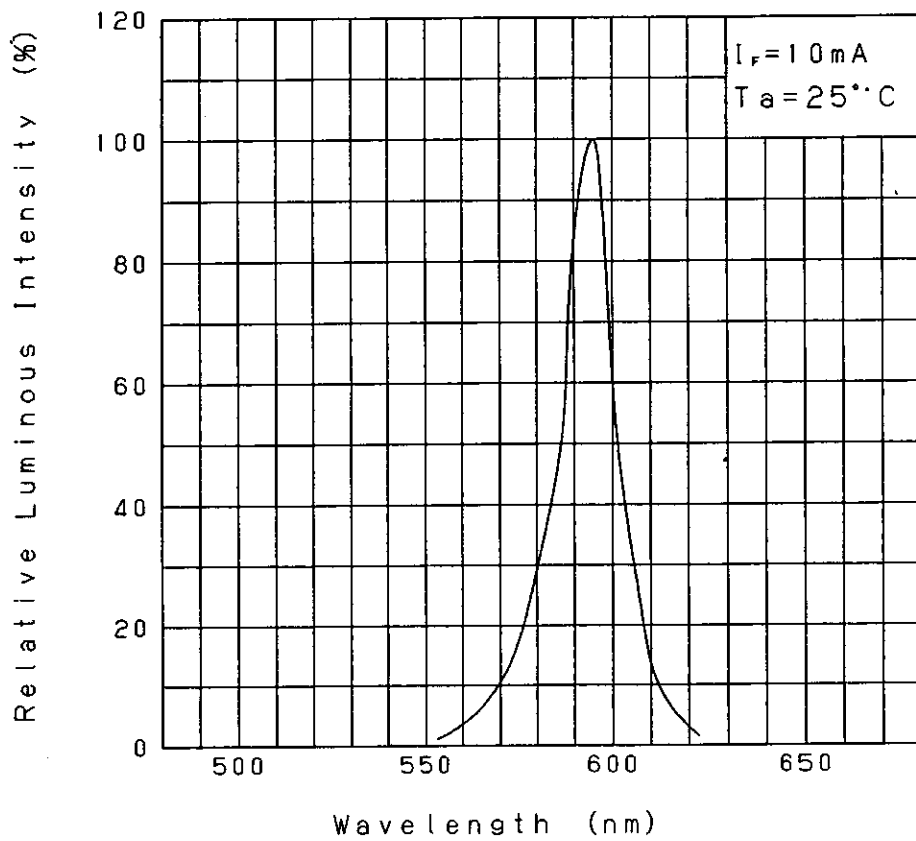
| | | | |
|---------------|--|--|--|
| Oct. 20. 2001 | | | |
| | | | |



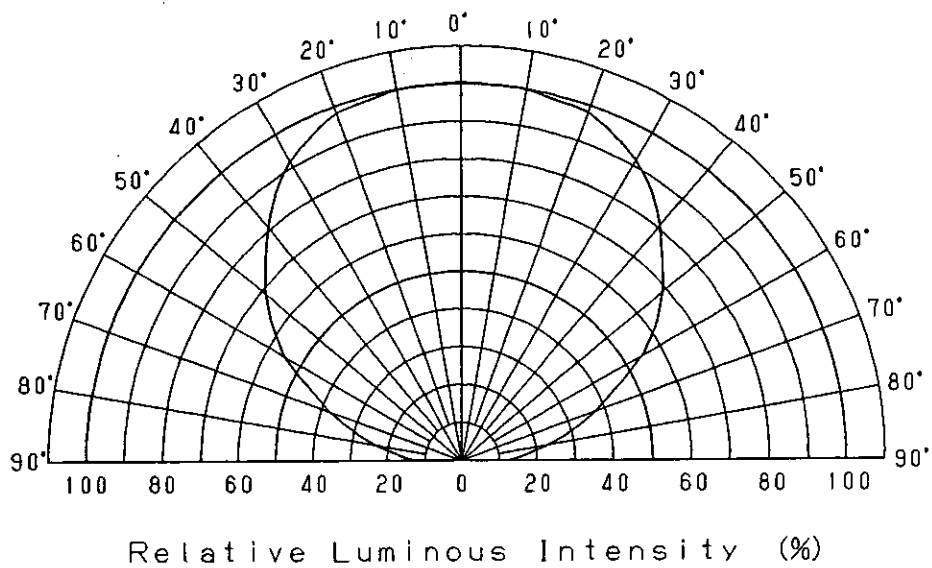
| | | | |
|---------------|--|--|--|
| Oct. 20. 2001 | | | |
|---------------|--|--|--|

| | | | | | |
|----------|---------|--------------------------------------|---|--|--|
| Approved | Checked | Designed <i>K. J. [Signature]</i> | DEVELOPMENT SPECIFICATION Tentative P/N:LNJ412K84RA | | |
| | | | | | |

Relative Luminous Intensity
Wavelength Characteristics



Directive Characteristics



Oct. 20. 2001

Panasonic

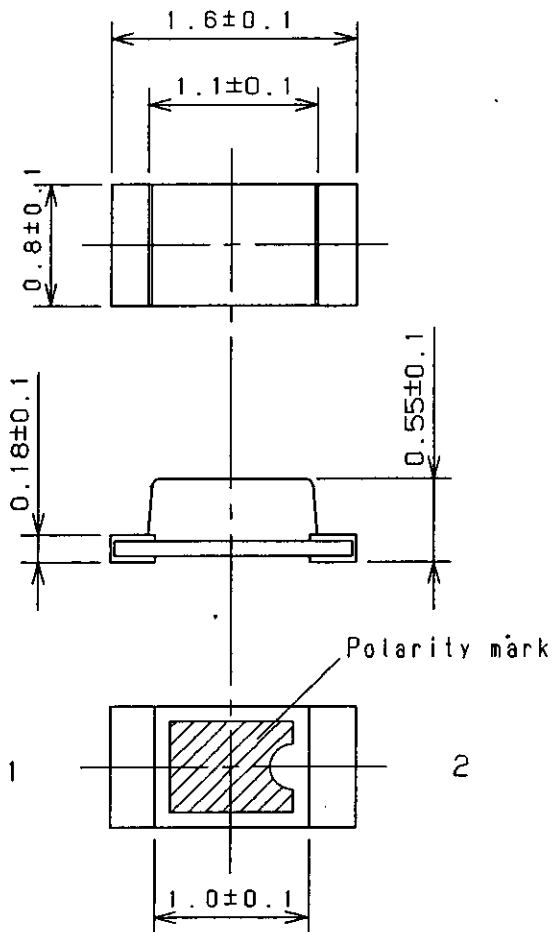
KAGOSHIMA MATSUSHITA ELECTRONICS CO., LTD.

KB-H-022-018B

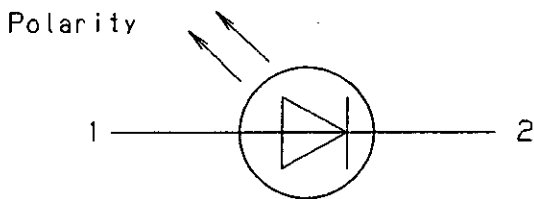
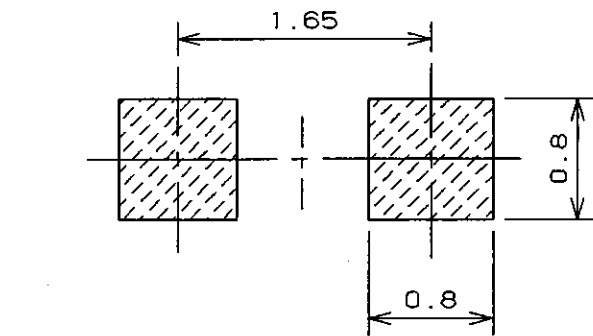
Approved Checked Designed

K. Sakurai

DEVELOPMENT SPECIFICATION (O U T L I N E) Tentative P/N:LNJ412K84RA



Recommended Land Layout



1: Anode
2: Cathode

(NOTE)

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

Oct.20.2001

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panasonic\(松下\)](#)