

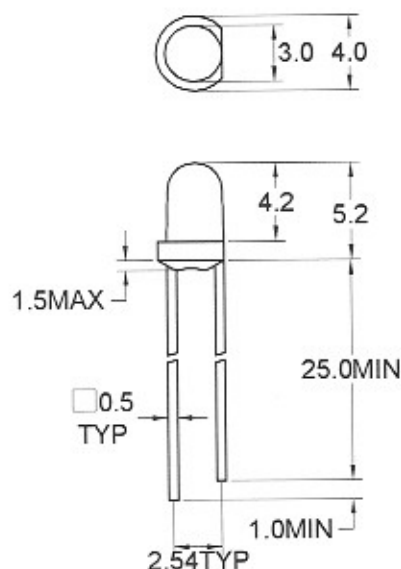


LIGITEK

## LX2040

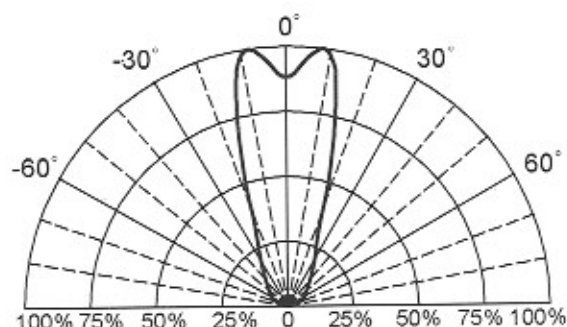
SERIES

### Package Dimension



Note:1.All dimension are in millimeter tolerance is  $\pm 0.25\text{mm}$  unless otherwise noted  
2 Specifications are subject to change without notice

### Directivity Radiation



• Part Selection And Application Information (Ratings At 25°C Ambient)

| PART NO | MATERIAL  | COLOR   |                 | Peak wave length<br>$\lambda$ Pnm | Spectral halfwidth<br>$\Delta \lambda$ nm | Forward voltage<br>@20mA(v) |      | Luminous intensity<br>@10mA(mcd) |      | Viewing angle<br>2 $\theta$ 1/2<br>(deg) |
|---------|-----------|---------|-----------------|-----------------------------------|-------------------------------------------|-----------------------------|------|----------------------------------|------|------------------------------------------|
|         |           | Emitted | Lens            |                                   |                                           | Min.                        | Max. | Min.                             | Typ. |                                          |
| LR2040  | GaP       | Red     | Red Diffused    | 655                               | 40                                        | 1.5                         | 2.0  | 0.8                              | 1.5  | 36                                       |
| LH2040  | GaP       | Red     | Red Diffused    | 697                               | 90                                        | 1.7                         | 2.6  | 3.0                              | 4.5  | 36                                       |
| LG2040  | GaP       | Green   | Green Diffused  | 565                               | 30                                        | 1.7                         | 2.6  | 12                               | 30   | 36                                       |
| LY2040  | GaAsP/GaP | Yellow  | Yellow Diffused | 585                               | 35                                        | 1.7                         | 2.6  | 8.0                              | 20   | 36                                       |
| LE2040  | GaAsP/GaP | Orange  | Orange Diffused | 635                               | 45                                        | 1.7                         | 2.6  | 12                               | 20   | 36                                       |
| LI2040  | GaAsP/GaP | Orange  | Red Diffused    | 635                               | 45                                        | 1.7                         | 2.6  | 12                               | 20   | 36                                       |

• Absolute Maximum Rating (Ta=25°C)

| PARAMETER                               | RED             |  |    | GREEN |     | YELLOW |    |  | ORANGE |     | UNIT    | REMARK |
|-----------------------------------------|-----------------|--|----|-------|-----|--------|----|--|--------|-----|---------|--------|
|                                         | R               |  | H  |       | G   |        | Y  |  | I      | E   |         |        |
| Forward Current                         | 40              |  | 15 |       | 30  |        | 20 |  | 30     | 30  | mA      |        |
| Peak Forward Current<br>Duty 1/10@10KHz | 130             |  | 60 |       | 120 |        | 80 |  | 120    | 120 | mA      |        |
| Power Dissipation                       | 120             |  | 40 | 100   |     | 60     |    |  | 100    |     | mW      |        |
| Reverse Current @5v                     | 10              |  |    | 10    |     | 10     |    |  | 10     |     | $\mu A$ |        |
| Operating Temperature                   | -40°C TO +85°C  |  |    |       |     |        |    |  |        |     |         |        |
| Storage Temperature                     | -40°C TO +100°C |  |    |       |     |        |    |  |        |     |         |        |

Lead Soldering Temperature 260°C For 5 Seconds(2.0mm From Body)

文件編號: QW0905-LX2040

版本: B

生效日期: 02 - Oct - 2002