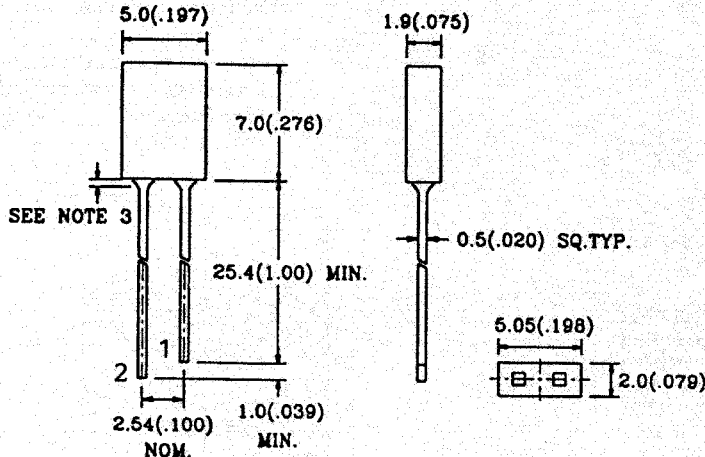


**L-407XXW&L-407XXD series...**  
**2.0x5.0x7.0mm RECTANGULAR LED LAMP**  
**DUAL CHIP(BI-POLAR)**

**MAIN FEATURES :**

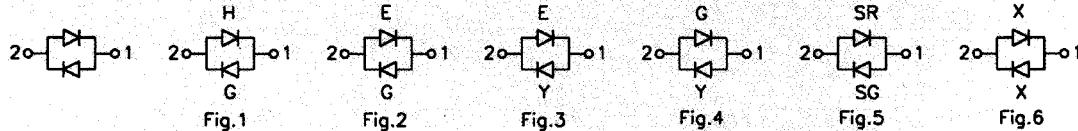
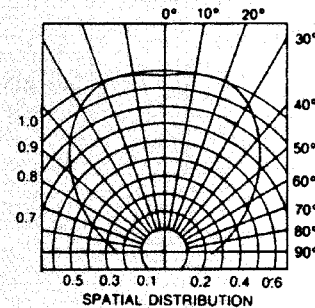
- ⊙ 2.0x5.0x7.0mm RECTANGULAR LED LAMP
- ⊙ LOW POWER CONSUMPTION
- ⊙ LONG LIFE-SOLID STATE RELIABILITY
- ⊙ I. C. COMPATIBLE
- ⊙ TWO CHIPS ARE MATCHED FOR UNIFORM LIGHT OUTPUT

◆ **PACKAGE DIMENSIONS**



**Notes:**

1. All Dimension are in millimeter.
2. Tolerance is  $\pm 0.25\text{mm}(0.010")$  unless otherwise specified.
3. Protruded resin under flange is 1.5mm(0.59") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specification are subject to change without notice.



◆ **SELECTION GUIDE AND APPLICATION INFORMATION ( RATINGS AT 25°C AMBIENT )**

| Part No.   | Chip         |               |                 | Wave Length<br>λ p(nm) | Absolute Maximum Ratings |       |       |           | Electro-Optical Characteristics |      |      |             |      |             | View |      |
|------------|--------------|---------------|-----------------|------------------------|--------------------------|-------|-------|-----------|---------------------------------|------|------|-------------|------|-------------|------|------|
|            | Raw Material | Emitted Color | Lens Color      |                        | Δ λ nm                   | Pd mW | If mA | If (Peak) | Vf(V)                           |      |      | If Iv (mcd) |      | Angle (deg) | FIG. |      |
|            |              |               |                 |                        |                          |       |       |           | Min.                            | Typ. | Max. | (Rec)       | Min. |             |      | Typ. |
| L-407HGW   | GaP          | Bright Red    | White           | 700                    | 90                       | 45    | 15    | 50        | 1.7                             | 2.1  | 2.8  | 5~10        | 2.0  | 5.0         | 60   | 1    |
|            | GaP          | Green         | Diffused        | 565                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         |      |      |
| L-407EGW   | GaAsP/GaP    | Hi.effi Red   | White           | 635                    | 45                       | 100   | 30    | 160       | 1.7                             | 2.0  | 2.8  | 10~20       | 5.0  | 12.0        | 60   | 2    |
|            | GaP          | Green         | Diffused        | 565                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         |      |      |
| L-407EYW   | GaAsP/GaP    | Hi.effi Red   | White           | 635                    | 45                       | 100   | 30    | 160       | 1.7                             | 2.0  | 2.8  | 10~20       | 5.0  | 12.0        | 60   | 3    |
|            | GaAsP/GaP    | Yellow        | Diffused        | 585                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         |      |      |
| L-407GYW   | GaP          | Green         | White           | 565                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         | 60   | 4    |
|            | GaAsP/GaP    | Yellow        | Diffused        | 585                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         |      |      |
| L-407SRSGW | GaAlAs       | Super Red     | White           | 660                    | 20                       | 60    | 20    | 160       | 1.6                             | 1.8  | 2.1  | 10~20       | 20.0 | 60.0        | 60   | 5    |
|            | GaP          | Green         | Diffused        | 565                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.0  | 2.8  | 10~20       | 8.0  | 20.0        |      |      |
| L-407HHD   | GaP          | Bright Red    | Red Diffused    | 700                    | 90                       | 45    | 15    | 50        | 1.7                             | 2.1  | 2.8  | 5~10        | 2.0  | 5.0         | 60   | 6    |
| L-407EED   | GaAsP/GaP    | Hi.effi Red   | Red Diffused    | 635                    | 45                       | 100   | 30    | 160       | 1.7                             | 2.0  | 2.8  | 10~20       | 5.0  | 12.0        | 60   | 6    |
| L-407EED-E | GaAsP/GaP    | Orange        | Orange Diffused | 635                    | 45                       | 100   | 30    | 160       | 1.7                             | 2.0  | 2.8  | 10~20       | 5.0  | 12.0        | 60   | 6    |
| L-407GGD   | GaP          | Green         | Green Diffused  | 565                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         | 60   | 6    |
| L-407YYD   | GaAsP/GaP    | Yellow        | Yellow Diffused | 585                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         | 60   | 6    |
| L-407AAD   | GaAsP/GaP    | Amber         | Amber Diffused  | 585                    | 30                       | 100   | 30    | 160       | 1.7                             | 2.1  | 2.8  | 10~20       | 3.0  | 8.0         | 60   | 6    |
| L-407SRSRD | GaAlAs       | Super Red     | Red Diffused    | 660                    | 20                       | 60    | 20    | 160       | 1.6                             | 1.8  | 2.1  | 10~20       | 20.0 | 60.0        | 60   | 6    |

◆ **ABSOLUTE MAXIMUN RATING: (Ta=25°C)**

|                             |                       |
|-----------------------------|-----------------------|
| Reverse Voltage             | : 5 Volt              |
| Reverse Current( Vr = 5V )  | : 10 $\mu$ A          |
| Operating Temperature Range | : -40°C to +85°C      |
| Storage Temperature Range   | : -40°C to +100°C     |
| Lead Soldering Temperature  | : 260°C for 5 Seconds |
| (1.6mm(1/16inch) from body) |                       |

◆ **ELECTRO-OPTICAL CHARACTERISTICS: (Ta=25°C)**

| Para meter Description                 | Symbol          | Unit |
|----------------------------------------|-----------------|------|
| Spectral Line half-Width               | $\Delta\lambda$ | nm   |
| Power Dissipation                      | Pd              | mW   |
| Peak Forward Current (Duty 1/10,@KHz)  | If(Peak)        | mA   |
| Recommended Operation Current          | If(Rec)         | mA   |
| Average Luminous intensity (If = 10mA) | Iv              | mcd  |