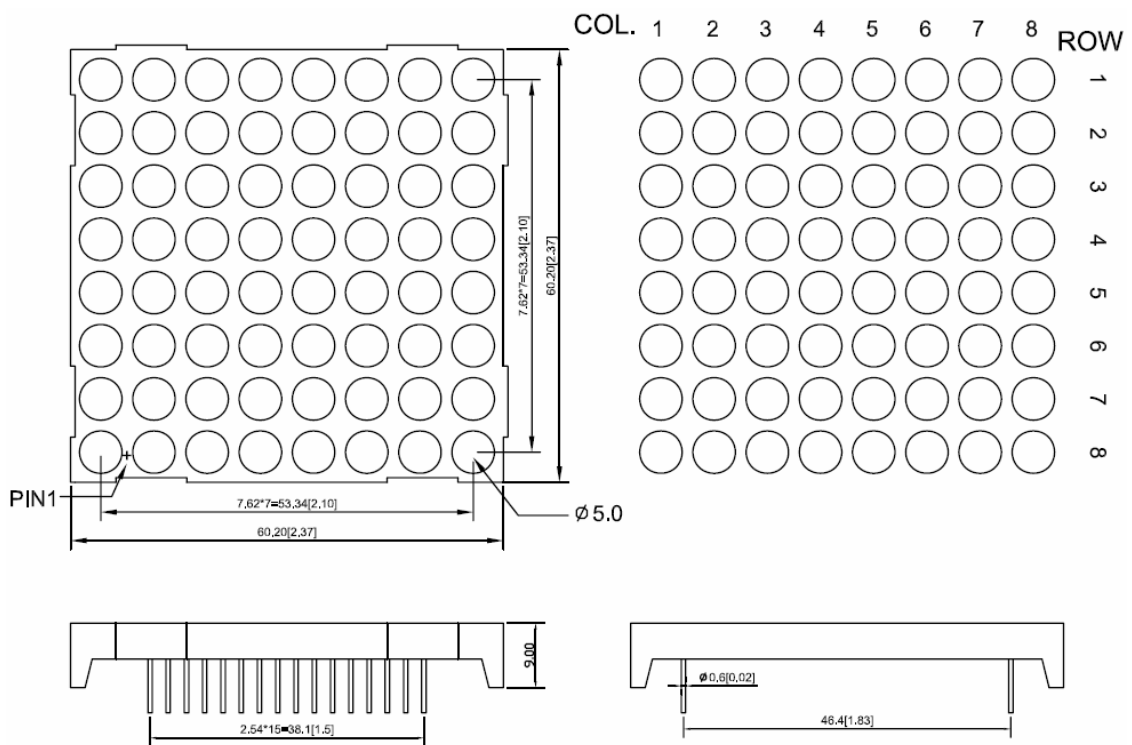


RGB FULL COLOR MATRIX, 6*6CM, 8*8 DOTS, C+

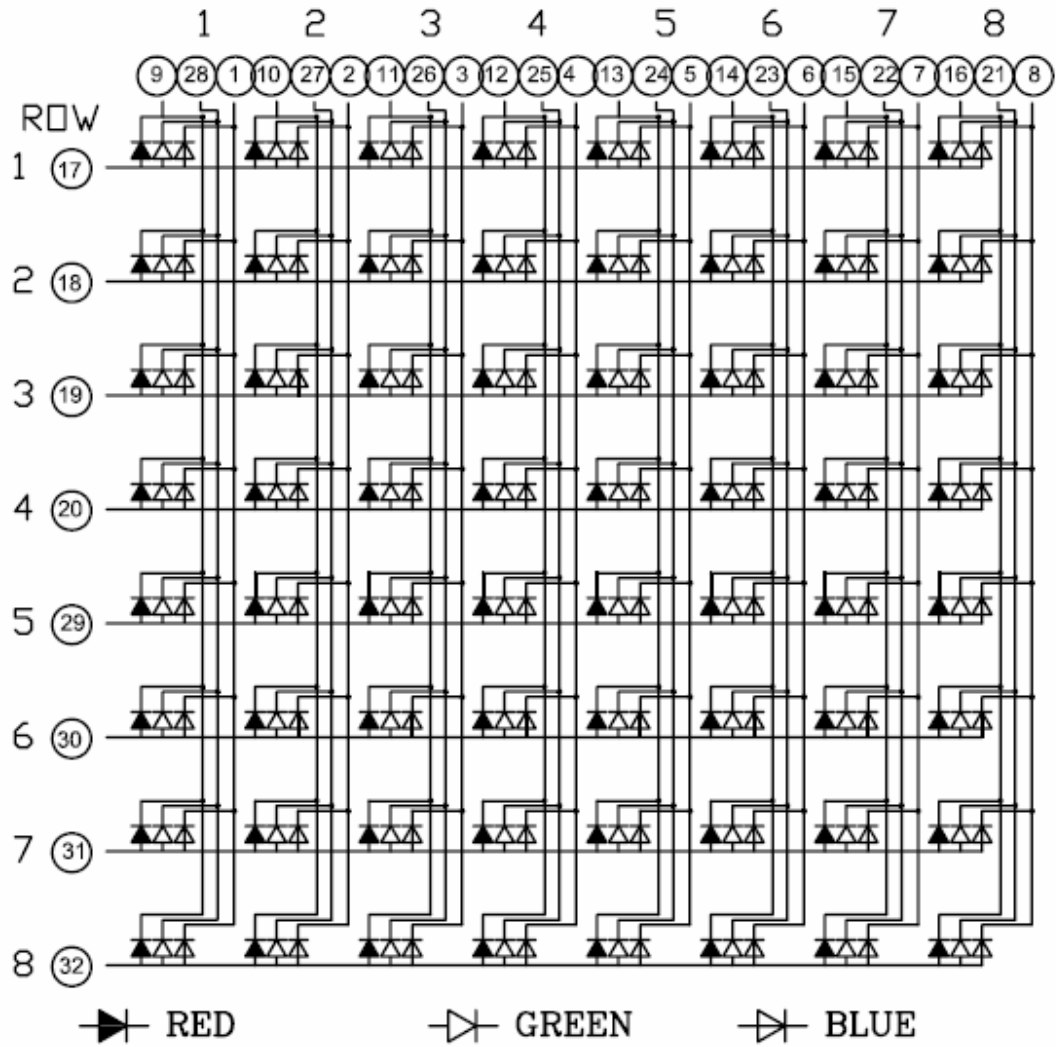
SPECIFICATION

LEDSEE electronics
www.ledsee.com
info@ledsee.com

PACKAGE DIMENSIONS



INTERNAL CIRCUIT DIAGRAM



Notes:

1. All dimensions are in millimeters (inch), Tolerance is * 0.25mm (0.01") unless otherwise noted.
2. The specification may be changed without notice.

General Information

| Chip Material | Emitting Color | Lens Type | Description |
|---------------|----------------|-------------|--------------|
| GaAlP/GaP | RED | Water Clear | Common Anode |
| InGaN | GREEN | Water Clear | |
| InGaN/GaN | BLUE | Water Clear | |

Electrical/Optical Characteristics at Ta=25°C

| Parameter | Symbol | RED | | | GREEN | | | BLUE | | | Unit | Conditions |
|--------------------------|----------------|------|-------|------|-------|-------|------|-------|-------|-------|------|----------------------|
| | | MIN. | Typ. | Max. | MIN. | Typ. | Max. | MIN. | Typ. | Max. | | |
| Luminous Intensity | I _v | 90 | 100 | 120 | 210 | 220.5 | 230 | 140 | 157.8 | 160 | mcd | I _F =20mA |
| Peak Wavelength | λ _P | — | — | — | — | — | — | — | — | — | nm | I _F =20mA |
| Dominant Wavelength | λ _D | 620 | 623.8 | 625 | 520 | 521.5 | 525 | 465.1 | 466.3 | 467.4 | nm | I _F =20mA |
| Spectral Line Half-Width | Δλ | — | 20 | — | — | 20 | — | — | 20 | — | nm | I _F =20mA |
| Forward Voltage | V _F | 1.7 | 1.8 | 2.3 | 3.2 | 3.3 | 3.4 | 3.2 | 3.3 | 3.4 | V | I _F =20mA |
| Reverse Current | I _R | — | — | 50 | — | — | 50 | — | — | 50 | uA | V _R =5V |

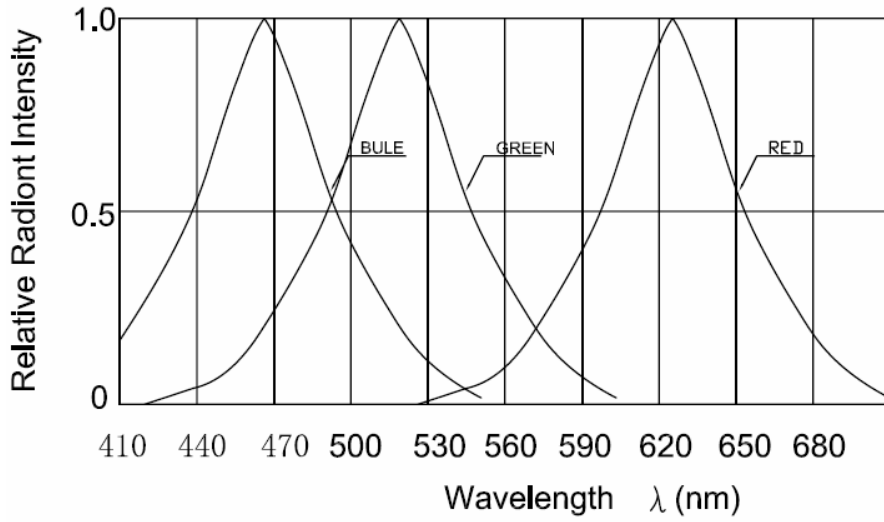
Absolute Maximum Ratings at Ta=25°C

| Parameter | Symbol | Maximum Rating | Unit |
|----------------------------|-----------------------|----------------------|------|
| Power Dissipation | P _d | 65 | mW |
| | | 105 | |
| | | 105 | |
| Forward Current | I _F | 20 | mA |
| Peak Forward Current(1) | I _F (Peak) | 30 | mA |
| Reverse Voltage | V _R | 5 | V |
| Operating Temperature | T _{opr} | -40° c+80° c | |
| Storage Temperature | T _{stg} | -40° c+80° c | |
| Lead Solder Temperature(2) | T _{sol} | 260° c for 5 seconds | |

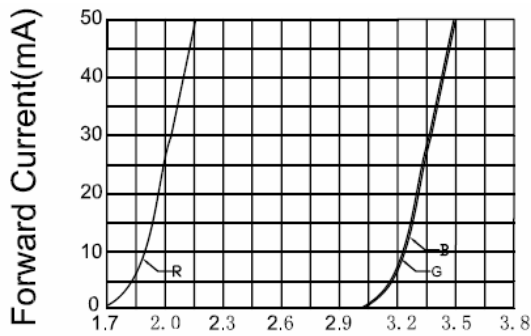
Notes:

- 1/10 duty cycle, 0.1ms pulse width.
- 2mm below package base.

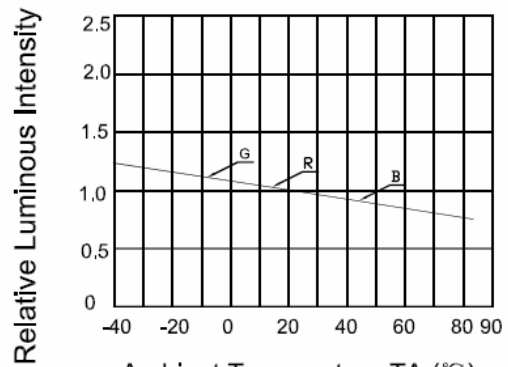
25° Ambient Temperature Unless Otherwise Noted



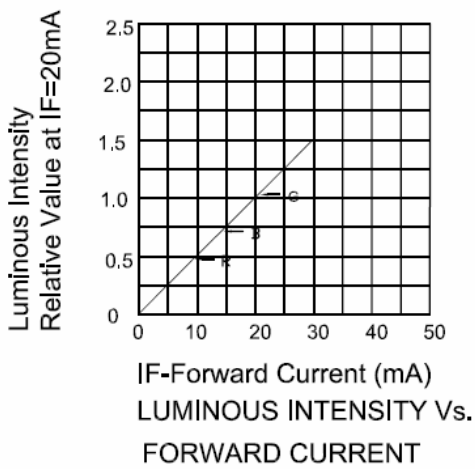
RELATIVE INTENSITY Vs.WAVELENGTH



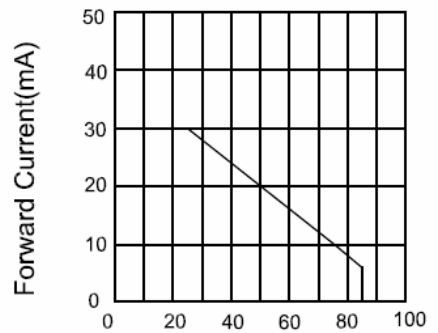
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE