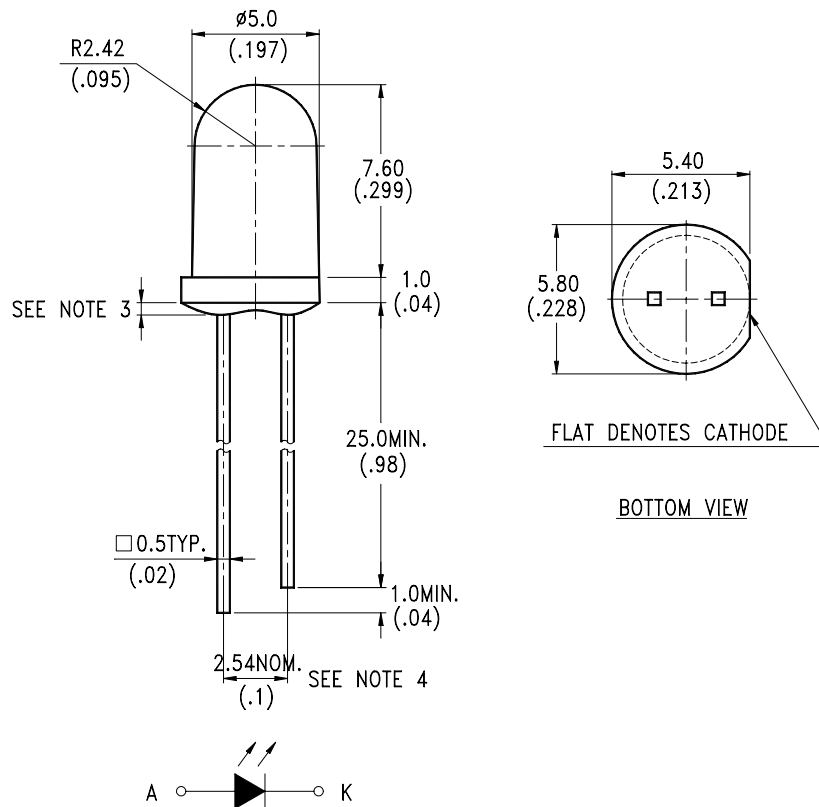


FEATURES

- * HIGH SPEED
- * HIGH POWER
- * AVAILABLE FOR PULSE OPERATING
- * CLEAR TRANSPARENT COLOR PACKAGE

PACKAGE DIMENSIONS**NOTES:**

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Protruded resin under flange is 1.5mm (.059") max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.



LITE-ON TECHNOLOGY CORPORATION

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ABSOLUTE MAXIMUM RATINGS AT TA=25

| PARAMETER | MAXIMUM RATING | UNIT |
|--|-------------------|------|
| Power Dissipation | 120 | mW |
| Peak Forward Current (300pps, 10 μ s pulse) | 1 | A |
| Continuous Forward Current | 100 | mA |
| Reverse Voltage | 5 | V |
| Operating Temperature Range | -40 to + 85 | |
| Storage Temperature Range | -40 to + 85 | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260 for 6 Seconds | |

ELECTRICAL / OPTICAL CHARACTERISTICS AT TA=25

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | TEST CONDITION |
|---------------------------|----------------|------|------|------|---------|-------------------------|
| Radiant Intensity | I_E | 20 | 36 | - | mW/sr | $I_F = 20mA$ |
| Peak Emission Wavelength | λ_P | - | 865 | - | nm | $I_F = 20mA$ |
| Spectral Line Half-Width | | - | 25 | - | nm | $I_F = 20mA$ |
| Forward Voltage | V_F | - | 1.45 | 1.65 | V | $I_F = 20mA$ |
| Forward Voltage | V_F | - | - | 0.4 | V | $V_F@ 50mA - V_F@ 20mA$ |
| Reverse Current | I_R | - | - | 10 | μA | $V_R = 5V$ |
| Reverse Voltage | V_R | 5 | - | - | V | $I_R = 100 \mu A$ |
| Viewing Angle (See FIG.6) | $2 \times 1/2$ | 25 | 30 | - | deg. | $I_F = 20mA$ |
| Dice Center | - | 0 | - | 0.12 | mm | - |

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25 Ambient Temperature Unless Otherwise Noted)

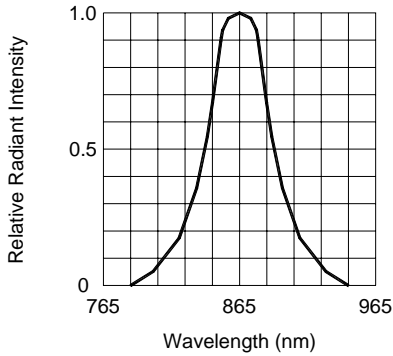


FIG.1 SPECTRAL DISTRIBUTION

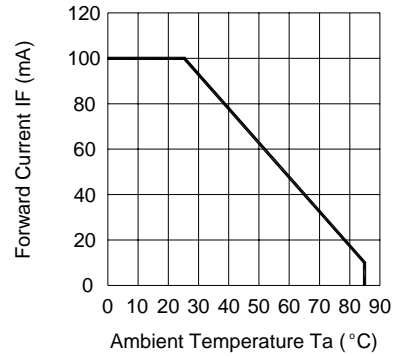


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

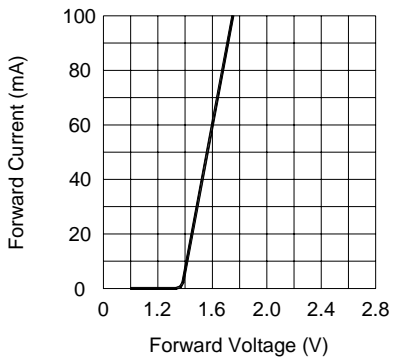


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

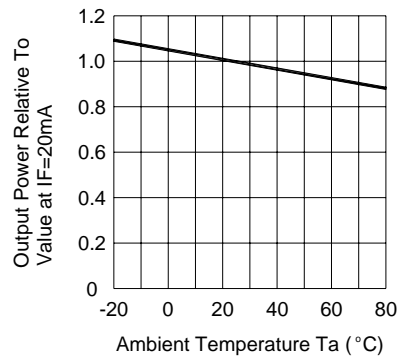


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

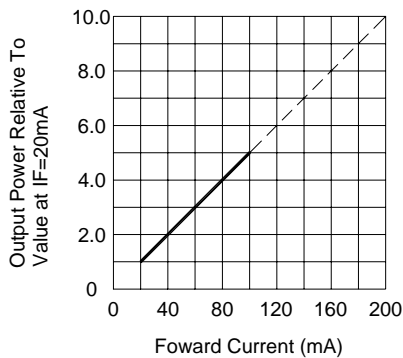


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

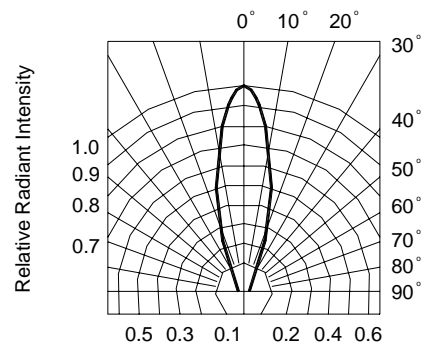


FIG.6 RADIATION DIAGRAM