
Selection Guide

| Part No. | Dice | | Lens Color | Iv(mcd)(If=20mA) | | | Viewing Angle (20½) |
|-------------------|--------------|---------------|-------------|------------------|------|-----|------------------------|
| | Raw Material | Emitted Color | | MIN | TYP | MAX | |
| SE-LED1.810050-B5 | InGaN | Blue | Water Clear | 500 | 1000 | - | 50° |

Absolute Maximum Ratings(Ta=25C°)

| Item | Symbol | Maximum | Unit |
|--|-------------|---------------------|------|
| Power Dissipation | PD | 96 | mW |
| Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width) | IFP | 100 | mA |
| Continuous Forward Current | IFmax | 30 | mA |
| Reverse Voltage | VR | 5 | V |
| Capacitance | C | 95 | pF |
| Operating / Storage Temperature Range | Topr / Tstg | -40°C to +85°C | |
| Lead Solder Temperature | Tsol | 260°C for 3 seconds | |

Electrical / Optical Characteristics(Ta=25C°)

| Item | Symbol | Min. | Typ. | Max. | Unit | Condition |
|---------------------|-------------|------|------|------|------|-----------|
| Peak Wavelength | λ_p | - | 471 | - | nm | IF=20mA |
| Dominant Wavelength | λ_d | 460 | - | 475 | nm | IF=20mA |
| Forward Voltage | VF | 2.80 | 3.20 | 3.50 | V | IF=20mA |
| Reverse Current | IR | - | - | 10 | uA | VR=5V |

NOTES:

- All dimensions are in millimeter(inch);
- Tolerance is $\pm 0.25\text{mm}(0.01")$ unless other specified; Luminous intensity tolerance is $\pm 10\%$;
- Dominant Emission Wavelength tolerance is $\pm 5\%$; Specifications are subject to change without notice.

■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

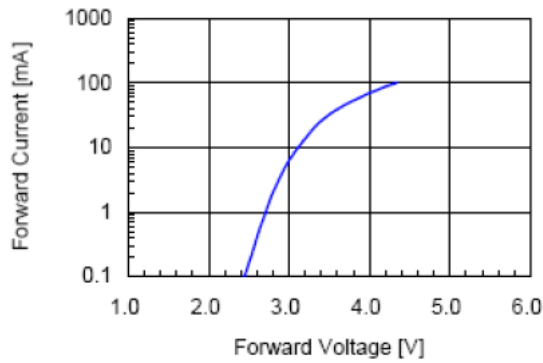


FIG. 2 Relative Intensity Vs. Forward Current

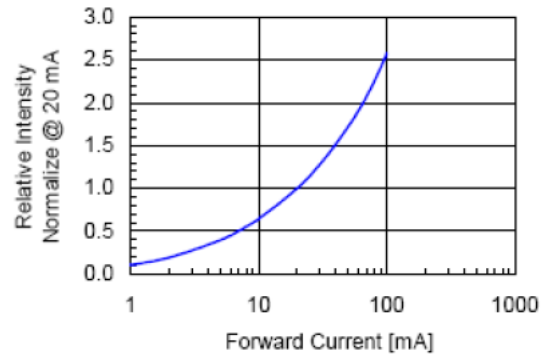


FIG. 3 Forward Voltage Vs. Temperature

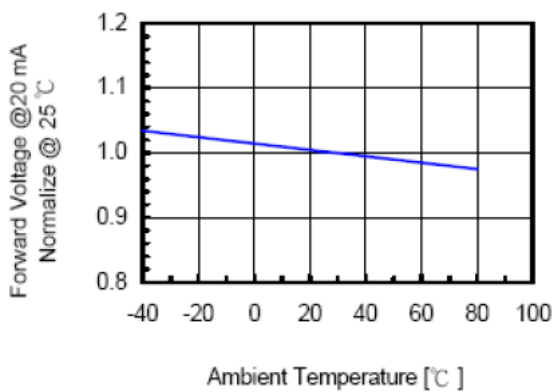


FIG. 4 Relative Intensity Vs. Temperature

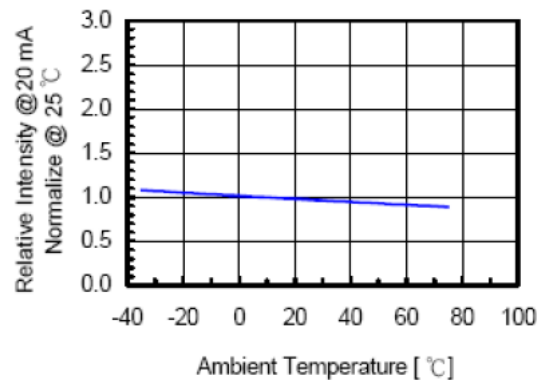


FIG. 5 Relative Intensity Vs. Wavelength

