

SUPERLIGHT®

Part No.:Hi-05A4SBD AE-207

Outline Dimensions

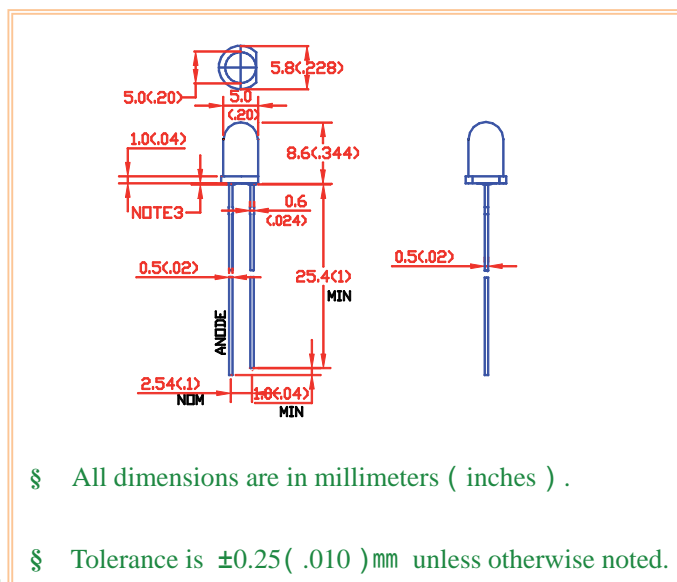
19/04214-00

§ Standard 5mm diameter package.

Characters

§ High intensity.

| ITEM | | MATERIALS |
|-----------------|---|-----------------------|
| Resin(Mold) | | Epoxy |
| Lens Color Code | C | Water Transparent |
| | T | Colored Transparent |
| | D | White Diffused |
| | E | Colored Diffused |
| Lead Frame | | Ag Plating Iron Alloy |
| Dice | | InGaN |

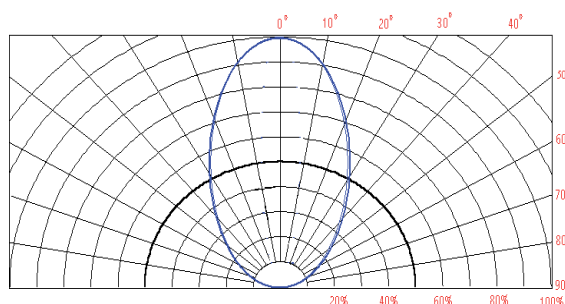


Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

| Item | Symbol | Value | Unit |
|------------------------|--------|-------------------------|------|
| Power Dissipation | PD | 100 | mW |
| DC Forward Current | IF | 30 | mA |
| Pulsed Forward Current | IFP | 100* | mA |
| Reverse Voltage | VR | 5 | V |
| Operating Temperature | Topr | -25 ~ +80 | °C |
| Storage Temperature | Tstg | -40 ~ +100 | °C |
| Soldering Temperature | Tsol | 260for5sec ^Δ | °C |

* Duty 1/10 Pulse Width 0.1ms Δ At the position of 4mm from the bottom of the package

Directive Characteristics ($T_a=25^\circ\text{C}$)



Electrical-Optical Characteristics ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Value | | | Unit | Test condition |
|-------------------------|--------------|-------|------|------|------|----------------|
| | | Min. | Typ. | Max. | | |
| Forward Voltage | Vf | --- | 3.0 | 3.4 | V | If=20mA |
| Luminous intensity | Iv | 100 | 250 | 600 | mcd | If=20mA |
| Wavelength | X(λd) | --- | 465 | 470 | (nm) | If=20mA |
| | y | --- | --- | --- | --- | If=20mA |
| Reverse Current | Ir | --- | --- | 5 | μA | Vr=5V |
| Viewing angle | 2θ1/2 | --- | 60 | --- | Deg | If=20mA |
| Spectral half bandwidth | Δλ | --- | 30 | --- | nm | If=20mA |