

**Part No. HI-05G3SYDAC-00Y**

§ Standard 5mm diameter package.

**Characters**

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

**Absolute Maximum Ratings (Ta=25 °C )**

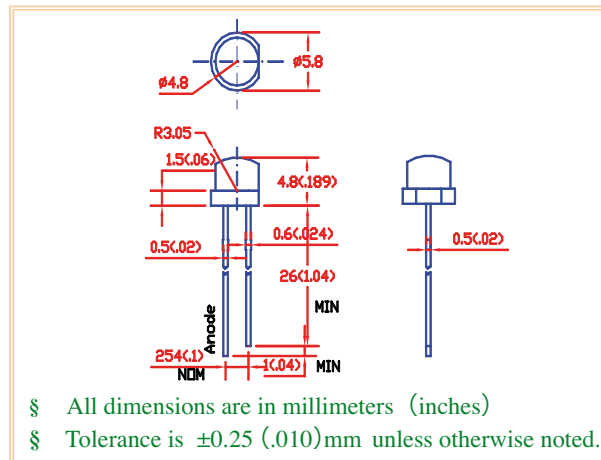
| Item                   | Symbol | Value         | Unit |
|------------------------|--------|---------------|------|
| Power Dissipation      | PD     | 100           | mW   |
| DC Forward Current     | IF     | 30            | mA   |
| Pulsed Forward Current | IFP    | 100           | mA   |
| Reverse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

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

**Electrical-Optical Characteristics (Ta=25°C)**

| Parameter               | Symbol            | Value |      |      | Unit | Test condition       |
|-------------------------|-------------------|-------|------|------|------|----------------------|
|                         |                   | Min.  | Typ. | Max. |      |                      |
| Forward Voltage         | V <sub>f</sub>    | 1.8   | ---  | 2.4  | V    | I <sub>f</sub> =20mA |
| Luminous intensity      | I <sub>v</sub>    | 100   | ---  | 300  | mcd  | I <sub>f</sub> =20mA |
| Wavelength              | λ(&λd)            | 588   | ---  | 593  | (nm) | I <sub>f</sub> =20mA |
|                         | y                 | ...   | ...  | ...  | ...  | I <sub>f</sub> =20mA |
| Reverse Current         | I <sub>r</sub>    | ...   | ...  | 5    | μA   | V <sub>r</sub> =5V   |
| Viewing angle           | 2θ <sub>1/2</sub> | ...   | 130  | ...  | Deg  | I <sub>f</sub> =20mA |
| Spectral half bandwidth | Δλ                | ...   | 25   | ...  | nm   | I <sub>f</sub> =20mA |

**Outline Dimensions**



**Directive Characteristics (Ta=25 °C)**

**Directive Characteristics ( Ta=25°C )**

