

1 SCOPE This specification covers the detail requirements for  
GaP Green Light Emitting Diode.

2 PHYSICAL DIMENSIONS See figure 1

3 PACKAGE INFORMATION Diffused lens (Green)

4 ABSOLUTE MAXIMUM RATINGS ( $T_a = 25^\circ\text{C}$ )

Power Dissipation 75mW  
Forward Current 25mA  
Reverse Voltage 3V  
Operating Temperature  $-25^\circ\text{C} \sim +85^\circ\text{C}$   
Storage Temperature  $-30^\circ\text{C} \sim +100^\circ\text{C}$

5 ELECTRO-OPTICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

| DESCRIPTION              | SYMBOL          | CONDITION           | MIN | TYP | MAX | UNITS         |
|--------------------------|-----------------|---------------------|-----|-----|-----|---------------|
| Luminous Intensity       | $I_V$           | $I_F = 20\text{mA}$ | 36  | 100 | —   | md            |
| Forward Voltage          | $V_F$           | $I_F = 20\text{mA}$ | —   | 2.2 | 3.0 | V             |
| Reverse Current          | $I_R$           | $V_R = 3\text{V}$   | —   | —   | 10  | $\mu\text{A}$ |
| Peak Wave Length         | $\lambda_p$     | $I_F = 20\text{mA}$ | —   | 563 | —   | nm            |
| Spectral Line Half Width | $\Delta\lambda$ | $I_F = 20\text{mA}$ | —   | 40  | —   | nm            |

|               |                              |                     |
|---------------|------------------------------|---------------------|
| Specification | Products                     | Type                |
|               | VISUAL LIGHT EMITTING DIODES | S L H - 5 6 M G 3 F |

## 7. IV CLASSIFICATION

| ITEM  | IV CLASSIFICATION |
|-------|-------------------|
| " P " | 22 ~ 45 mcd       |
| " Q " | 36 ~ 71 mcd       |
| " R " | 56 ~ 110 mcd      |
| " S " | 90 ~ (180) mcd    |

IF=20mA

Due to luminous intensity up, Intensity might shift.

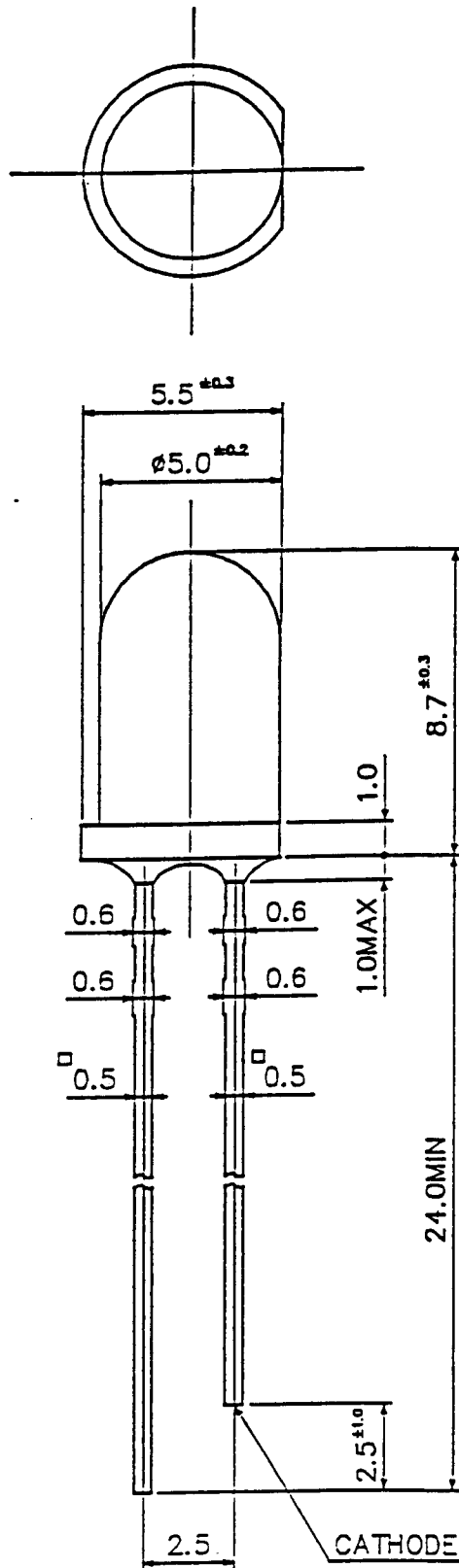
## 8. FACTORY OF ORIGIN

WAKO ELECTRIC CO., LTD. (OKAYAMA, JAPAN)  
ROHM-WAKO SDN. BHD (MALAYSIA)  
ROHM KOREA CORPORATION (KOREA)

## 9. WEIGHT

About 0.31 g per 1 piece

Figure. 1



(Unit: mm)

|               |                                          |                    |
|---------------|------------------------------------------|--------------------|
| Specification | Products<br>VISUAL LIGHT EMITTING DIODES | Type<br>SLH-56MG3F |
|---------------|------------------------------------------|--------------------|

1. TYPE NAME SLH-56MG3F

2. CONSTRUCTION GaP green visual Light Emitting Diodes packaged with green diffused epoxy.

3. USAGE Power source for display unit.

4. DIMENSIONS See Figure 1

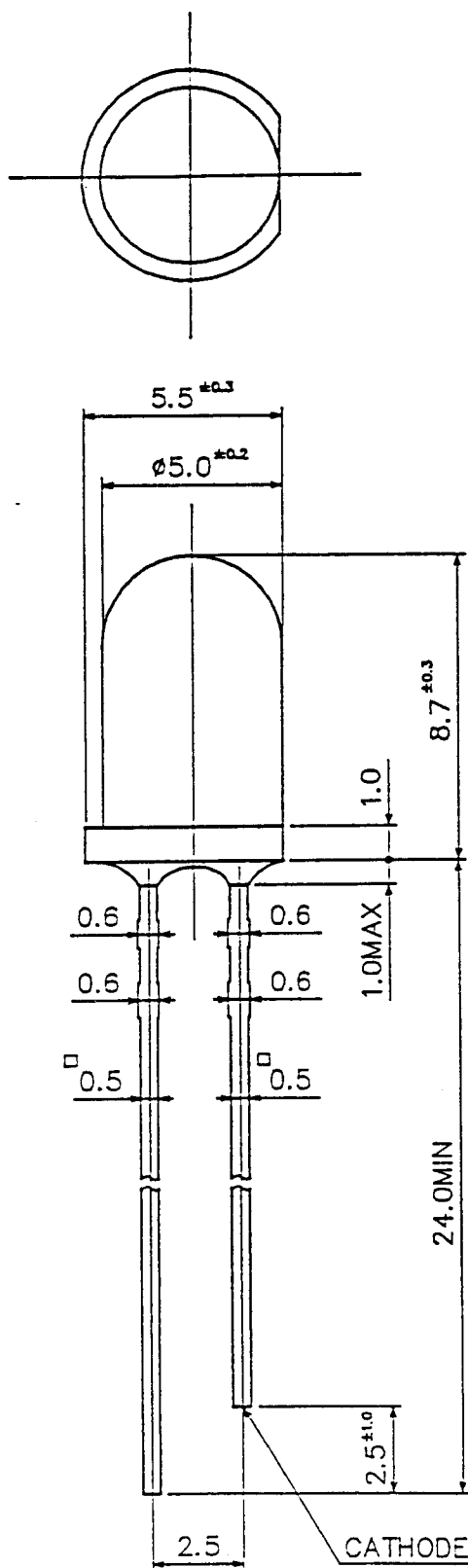
5. ABSOLUTE MAXIMUM RATINGS ( $T_a=25^{\circ}\text{C}$ )

|                       |           |                                                                                       |
|-----------------------|-----------|---------------------------------------------------------------------------------------|
| Power Dissipation     | $P_D$     | 75 mW                                                                                 |
| Forward Current       | $I_F$     | 25 mA                                                                                 |
| Peak Forward Current  | $I_{FP}$  | 60 mA (notes 1)                                                                       |
| Reverse Voltage       | $V_R$     | 3 V                                                                                   |
| Operating Temperature | $T_{opr}$ | $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$                                        |
| Storage Temperature   | $T_{stg}$ | $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$<br>(notes 1 Duty 1/5 Pulse Width 1ms) |

6. ELECTRO-OPTICAL CHARACTERISTICS ( $T_a=25^{\circ}\text{C}$ )

| DESCRIPTION              | SYMBOL          | CONDITION         | MIN | TYP  | MAX | UNITS         |
|--------------------------|-----------------|-------------------|-----|------|-----|---------------|
| Luminous Intensity       | $I_V$           | $I_F=20\text{mA}$ | 22  | 63   | —   | mcd           |
| Forward Voltage          | $V_F$           | $I_F=20\text{mA}$ | —   | 2.2  | 3.0 | V             |
| Reverse Current          | $I_R$           | $V_R=3\text{V}$   | —   | —    | 10  | $\mu\text{A}$ |
| Peak Wave Length         | $\lambda_P$     | $I_F=20\text{mA}$ | —   | 563  | —   | nm            |
| Spectral Line Half Width | $\Delta\lambda$ | $I_F=20\text{mA}$ | —   | 40   | —   | nm            |
| Input/Output Frequency   | —               | —                 | —   | 34.2 | —   | MHz           |

Figure. 1



(Unit: mm)