

Specification

Products

Light Emitting Diode

Type

SLH-56MG3F

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	—	acd
Forward Voltage	V_F	$I_F = 20\text{mA}$	—	2.2	3.0	V
Reverse Current	I_R	$V_R = 3\text{V}$	—	—	10	μA
Peak Wave Length	λ_p	$I_F = 20\text{mA}$	—	563	—	nm
Spectral Line Half Width	$\Delta\lambda$	$I_F = 20\text{mA}$	—	40	—	nm

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Design

Approval

Specification No.

Date

145801

12/20/85

MASTER

Specification	Products VISUAL LIGHT EMITTING DIODES	Type SLH-56MG3F
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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.

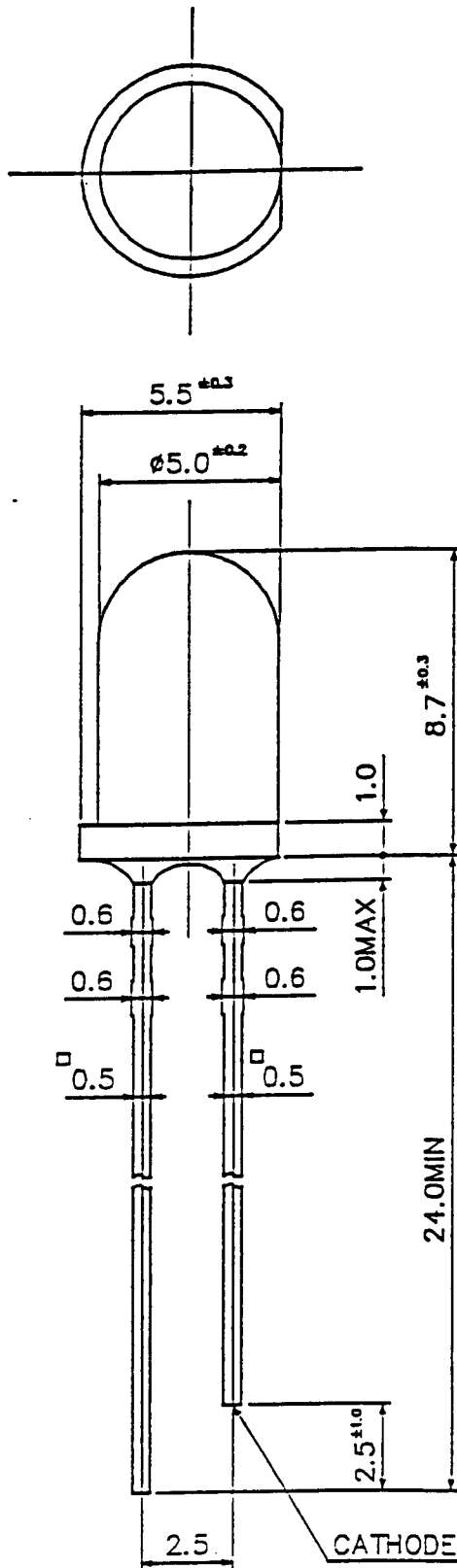
8. FACTORY OF ORIGIN

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 VISUAL LIGHT EMITTING DIODES	Type SLH-56MG3F
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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 (Ta=25°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°C~+85°C
Storage Temperature	T_{stg}	.....	-30°C~+100°C

(notes 1 Duty 1/5 Pulse Width 1ms)

6. ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

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

