

Part No.

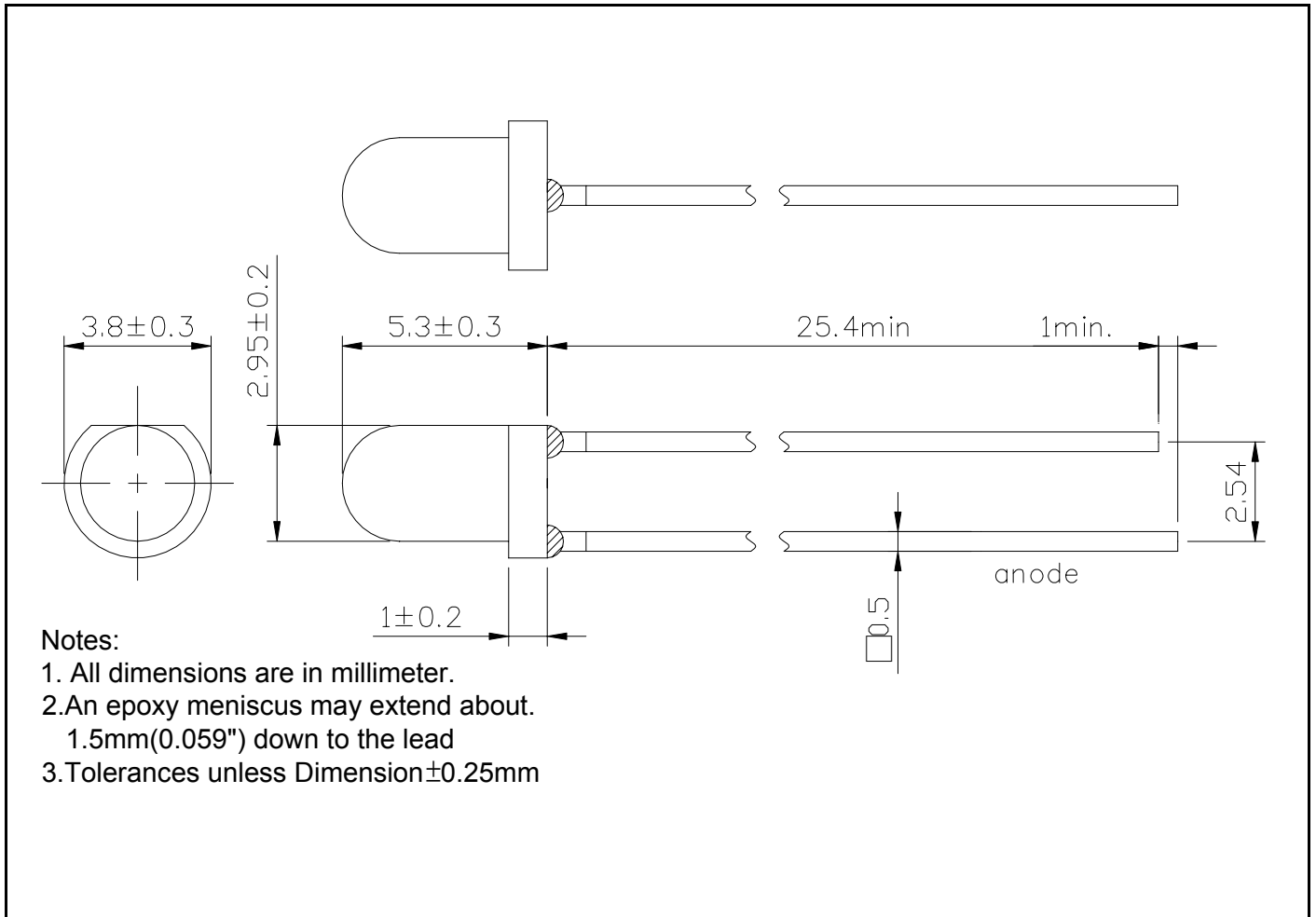
**55-534XB-0**

3 mm

Round

Type : LED Lamps

■ **Package Dimension:**



■ **Features :**

- Choice of various viewing angles.
- Available on Tape and Reel.
- Reliable and robust.

■ **Descriptions :**

- The series is specially designed for application requiring higher brightness.
- The LED lamps are available with different color, intensities, epoxy colors etc.

■ **Applications :**

- TV set
- Monitor
- Telephone

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LED Parts P/N.	Chip		Lens Color
	Material	Emitted Color	
55-534XB-0	AlGaInP	Super Yellow	Water Clear

■ Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Rating	Unit
Continuous Forward Current	$I_F$	20	mA
Operating Temperature	$T_{opr}$	-40~+85	°C
Storage Temperature	$T_{stg}$	-40~+100	°C
Soldering Temperature	$T_{sol}$	260±5	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	$P_D$	100	mW
Peak Forward Current (Duty 1/10@1KHz)	$I_F$ (Peak)	100	mA
Reverse Voltage	$V_R$	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	$I_v$	3000	4000	/	mcd	$I_F=20mA$
Viewing Angle	$2\theta 1/2$	/	30	/	deg	- - -
Peak Wavelength	$\lambda_p$	/	590	/	nm	$I_F=20mA$
Dominant Wavelength	$\lambda_d$	585	590	595	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta\lambda$	/	30	/	nm	$I_F=20mA$
Forward Voltage	$V_F$	1.8	2.1	2.4	V	$I_F=20mA$
Reverse Current	$I_R$	/	/	10	μA	$V_R=5V$

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■ **Reliability test items and conditions :**

The reliability of products shall be satisfied with items listed below.

Confidence level: 90%

LTPD: 10%

NO	ITEM	Test Conditions	Test hours/cycle	Sample Q'ty	Ac/Re
1	Solder Heat	Temp : 260°C±5°C	5 sec	22 pcs	0/1
2	Temperature Cycle	H : +100°C 15min ∩ 5min L : -40°C 15min	50 cycles	22 pcs	0/1
3	Thermal Shock	H : +100°C 15min ∩ 10sec L : -10°C 15min	50 cycles	22 pcs	0/1
4	High Temperature Storage	Temp : 100°C	1000 hrs	22 pcs	0/1
5	Low Temperature Storage	Temp : -40°C	1000 hrs	22 pcs	0/1
6	DC Operating Life	I <sub>F</sub> =20mA	1000 hrs	22 pcs	0/1
7	High Temperature / High Humidity	85°C / 85%RH	1000 hrs	22 pcs	0/1

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■ **Typical electro-optical characteristics curves :**

The data typical and the value are not guaranteed.

Fig.1 Radiation diagram

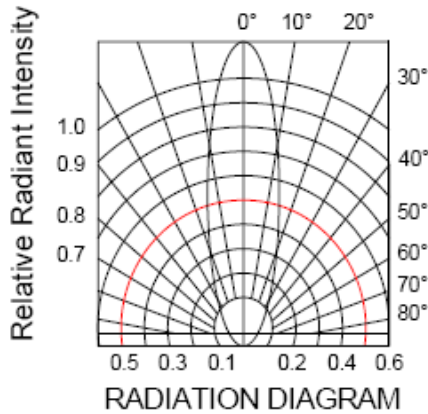


Fig.2 Relative intensity vs. Wavelength

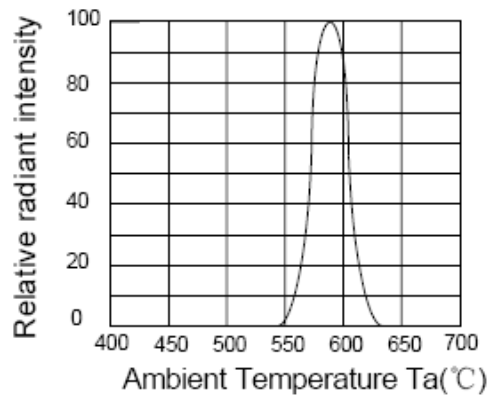


Fig.3 Relative luminous intensity vs. Ambient temperature

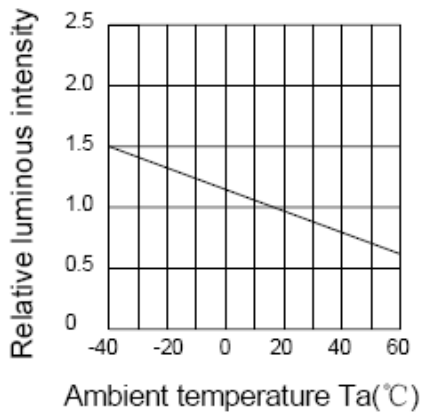


Fig.4 Forward current derating curve Vs. Ambient temperature

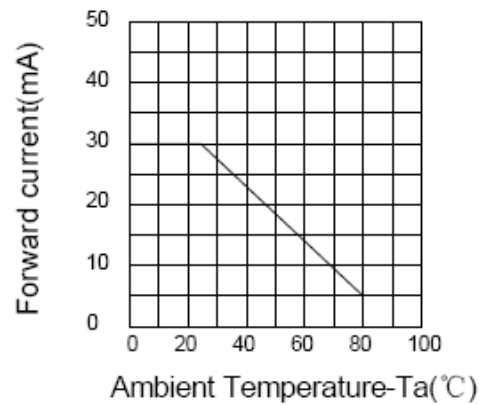


Fig.5 Forward current vs. Forward voltage

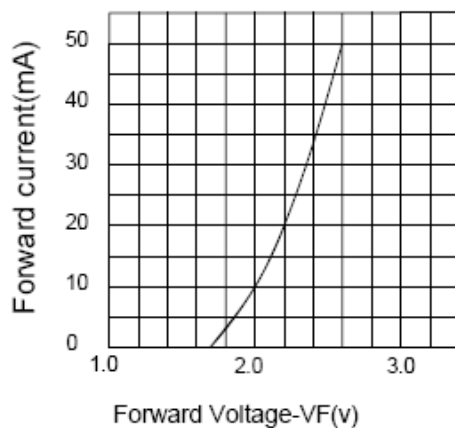


Fig.6 Relative luminous intensity vs. Forward current

