

Part No.

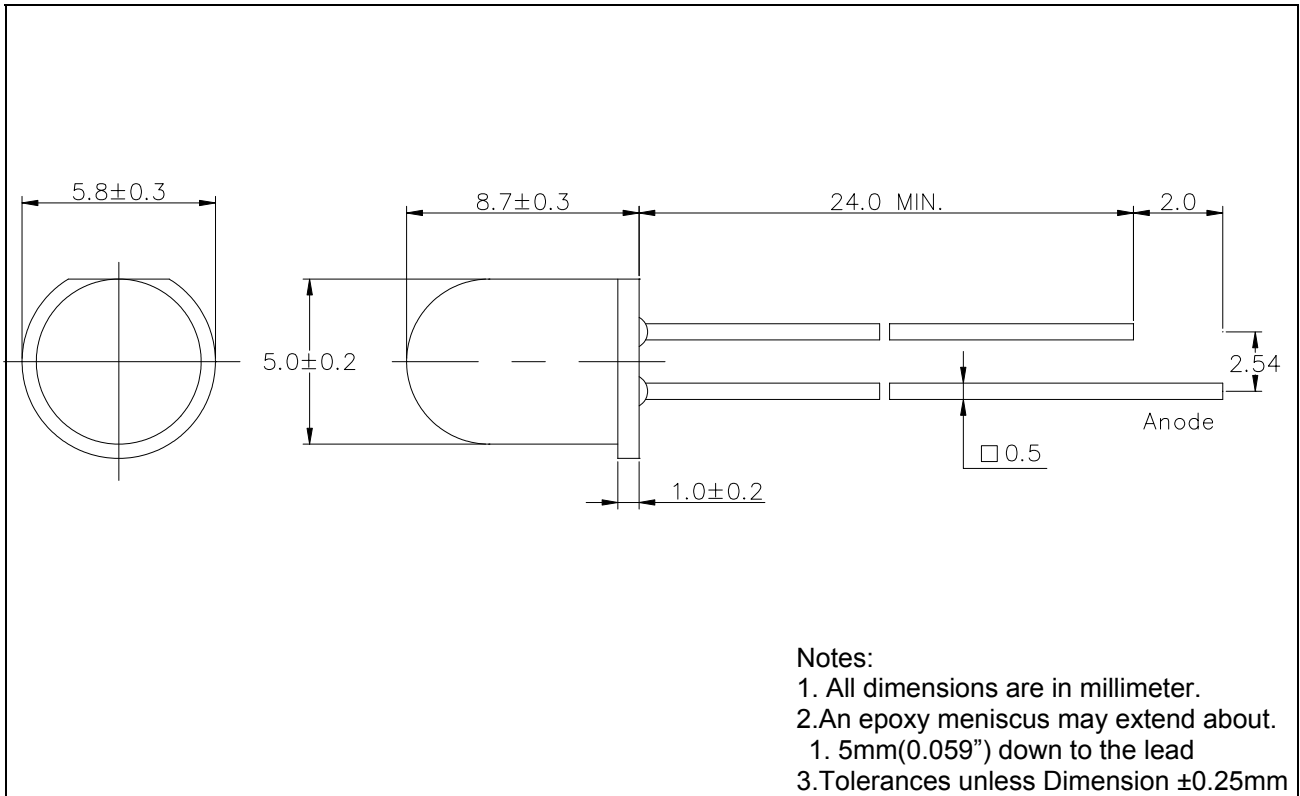
55-555UB-0

5 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

Part No. 55-555UB-0

5 mm

Round

Type : LED Lamps

PART NO.	Chip		Lens Color
	Material	Emitted Color	
55-555UB-0	InGaN	Green	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 to +85	°C
Storage Temperature	T_{stg}	-40 to +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	16500	23000	/	mcd	$I_F=20mA$
Viewing Angle	2θ1/2	/	15	/	deg	$I_F=20mA$
Peak Wavelength	λ_p	/	525	/	nm	$I_F=20mA$
Dominant Wavelength	λ_d	520	525	530	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta \lambda$	/	30	/	nm	$I_F=20mA$
Forward Voltage	V_F	2.8	3.2	3.6	V	$I_F=20mA$
Reverse Current	I_R	/	/	10	μA	$V_R=5V$

Part No. 55-555UB-0

5 mm

Round

Type : LED Lamps

■ Reliability test items and conditions :

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5°C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min ┆ 5min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ┆ 10set L : -10°C 5min	50 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C I _F =20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C / 85%RH	1000 HRS	76 PCS	0/1

Part No.

55-555UB-0

5 mm

Round

Type : LED Lamps

■ Typical Characteristics (The data typical , and the value is not guaranteed.)

Fig.1 Radiation diagram

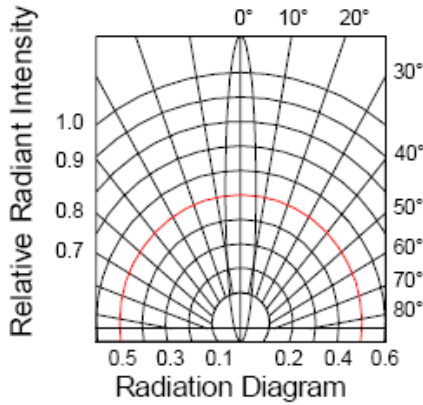


Fig.2 Relative intensity vs. Wavelength

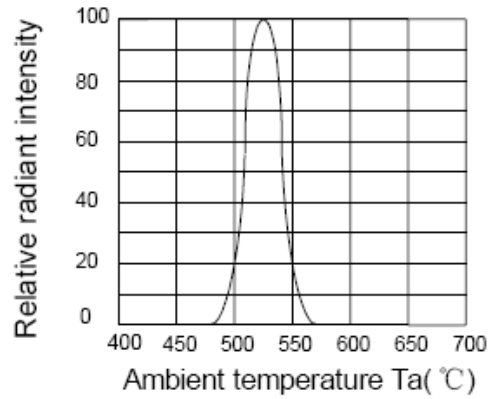


Fig.3 Relative luminous intensity vs.Ambient temperature

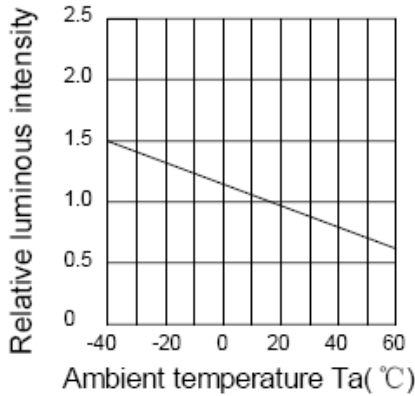


Fig.4 Forward current derating curve Vs.Ambient temperature

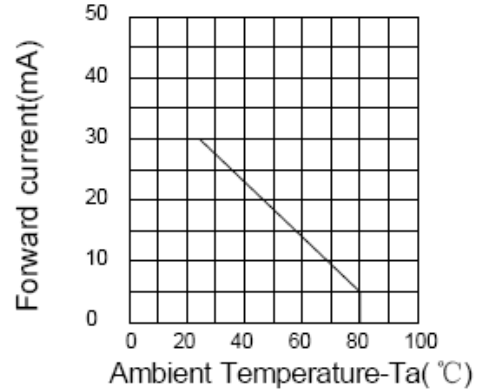


Fig.5 Forward current vs.Forward voltage

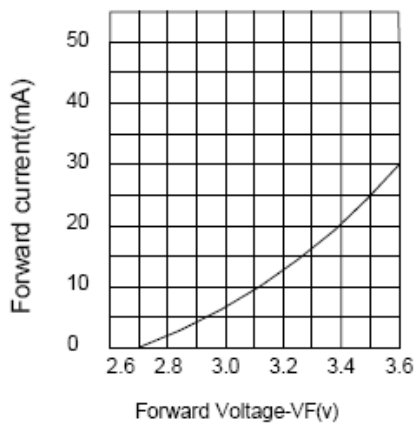


Fig.6 Relative luminous intensity vs.Forward current

