

Device Number : DLE-033-923 REV: 1.1

T-1 3/4 (5mm) Round Shape LEDs

PART NO : 333-2SUBC/C470/S400-A4 ECN : _____ Page: 1/4

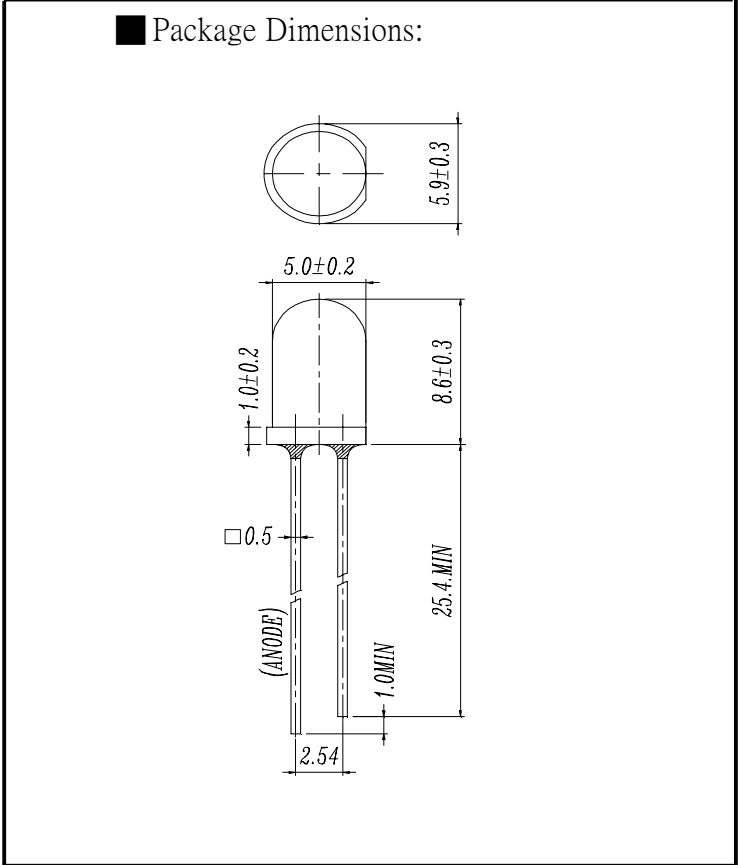
■ Features :

- Popular T-1 3/4 diameter package.
- Choice of various viewing angles.
- Available on tape and reel.
- Reliable and robust.

■ Descriptions :

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

■ Package Dimensions:



■ Applications :

- TV set
- Monitor
- Telephone
- Computer

■ Notes :

- 1.All dimensions are in millimeters.
- 2.An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3.Tolerances unless dimension ±0.25mm

PART NO	Chip		Lens Color
	Material	Emitted Color	
333-2SUBC/C470/S400-A4	InGaN	Super Blue	Water Clear

B89123390

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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	I _F	25	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	150	V
Power Dissipation	P _d	120	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
Radiane Intensity	I _v	1000	1600	----	mcd	I _F =20mA
Viewing Angle	2θ 1/2	----	10	----	deg	I _F =20mA
Peak Wavelength	λ _p	----	468	----	nm	I _F =20mA
Dominant Wavelength	λ _d	----	470	-----	nm	I _F =20mA
Spectrum Radiation Bandwidth	△λ	----	35	-----	nm	I _F =20mA
Forward Voltage	V _F	3.2	3.8	4.3	V	I _F =20mA
Reverse Current	I _R	----	----	50	μA	V _R =5V

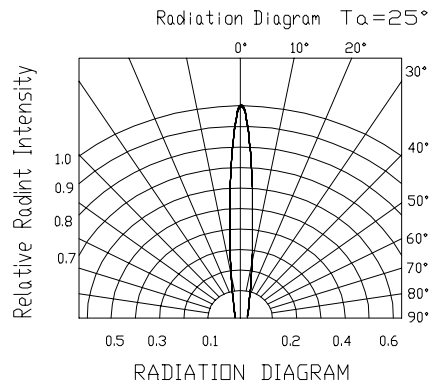
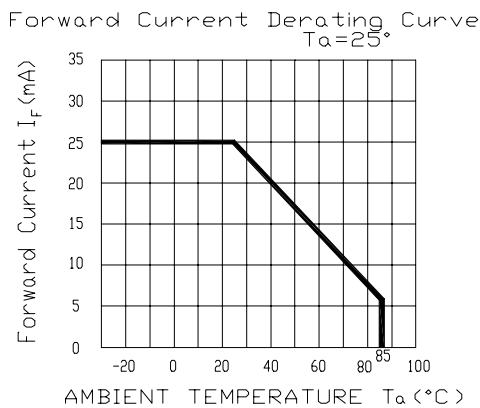
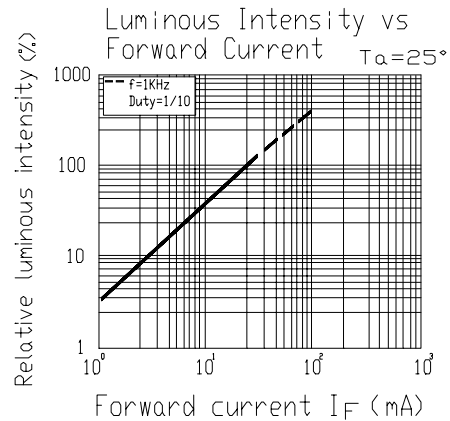
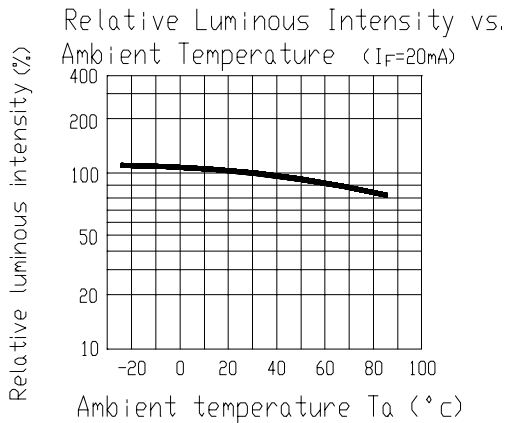
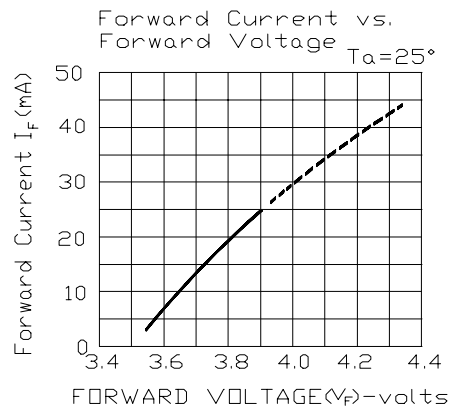
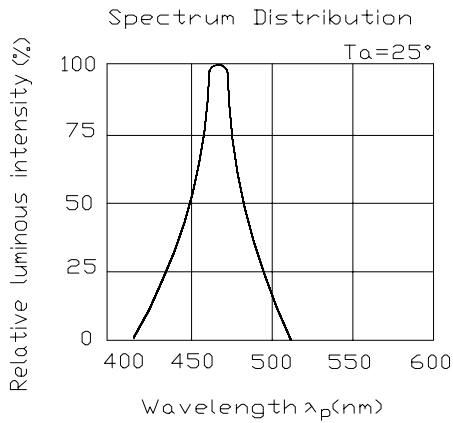
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■ Typical Electro-Optical Characteristic Curves



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■ 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 ∩ 5 min L : -55°C 30min	50 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∩ 10 sec 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 IF=20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1