



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-734-009 REV: 1.0

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

PART NO : 7343-2SUBC ECN : _____ Page: 1/4

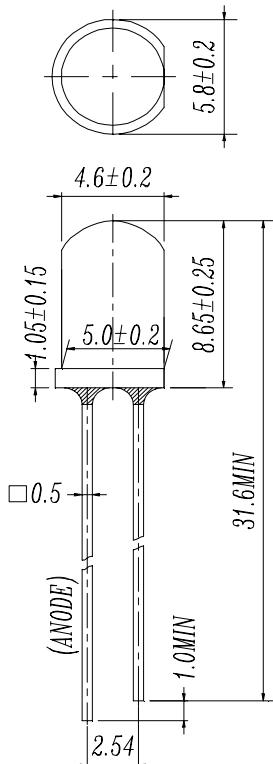
■ Features :

- 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 ± 0.25 mm

PART NO	Chip		Lens Color
	Material	Emitted Color	
7343-2SUBC	GaN	Super Blue	Water Clear

B90040947,9004020

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<http://www.everlight.com>



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PART NO : 7343-2SUBC ECN : Page: 2/4■ Absolute Maximum Ratings at $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Forward Current	I_F	30	mA
Operating Temperature	T_{opr}	-40 to +85	$^\circ C$
Storage Temperature	T_{stg}	-40 to +100	$^\circ C$
Soldering Temperature	T_{sol}	260 ± 5	$^\circ C$
Electrostatic Discharge	ESD	150	V
Power Dissipation	P_d	120	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	$I_F(\text{Peak})$	100	mA
Reverse Voltage	V_R	5	V

■ Electronic Optical Characteristics :

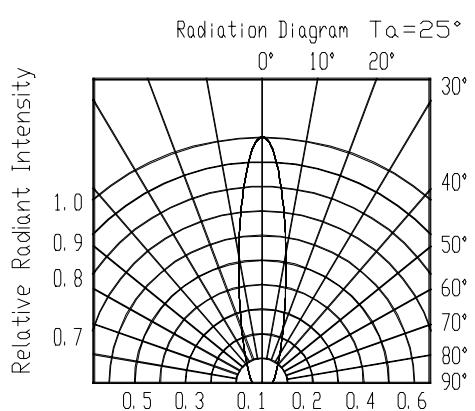
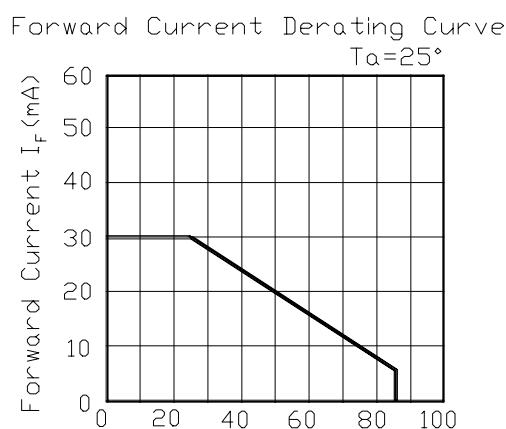
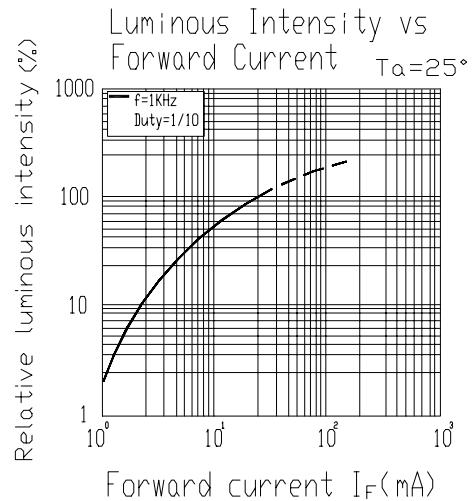
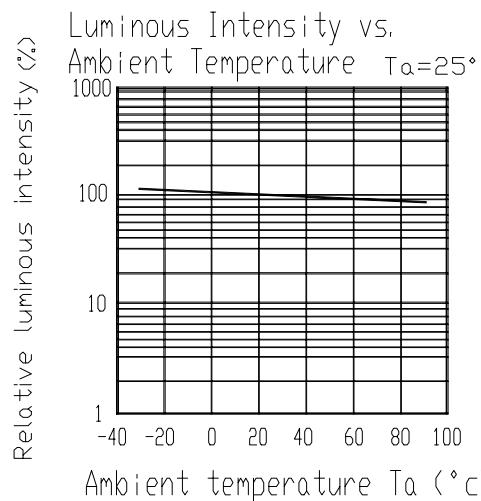
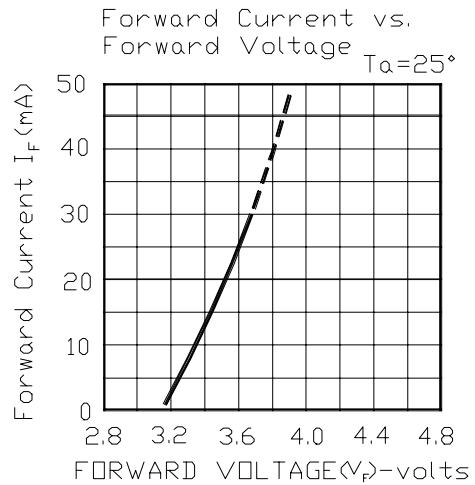
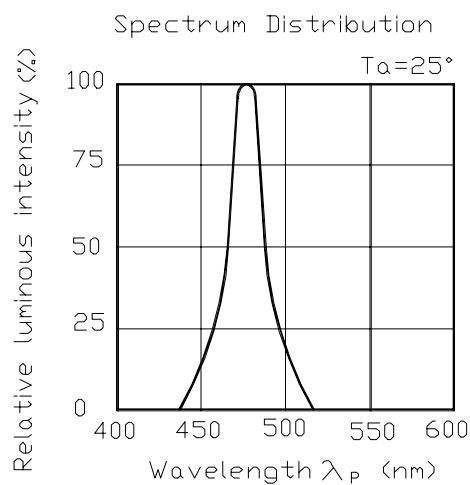
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I_v	630	1000	-----	mcd	$I_F=20mA$
Viewing Angle	$2\theta_{1/2}$	-----	20	-----	deg	$I_F=20mA$
Peak Wavelength	λ_p	-----	475	-----	nm	$I_F=20mA$
Dominant Wavelength	λ_d	-----	470	-----	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta\lambda$	-----	35	-----	nm	$I_F=20mA$
Forward Voltage	V_F	----	3.5	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	IF = 20 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1