



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-734-001 REV: 2.0

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

PART NO : 7343USRC/S1029 ECN : _____ Page: 1/5

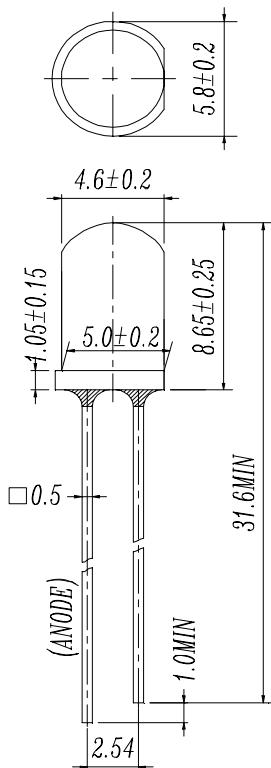
■ Features :

- 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	
7343USRC/S1029	AlGaInP	Super Red	Water Clear

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<http://www.everlight.com>



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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	50	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	120	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	100	mA
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Radiane Intensity	Ie	8.5	----	----	mW/sr	IF=20mA
Viewing Angle	2θ 1/2	----	30	----	deg	IF=20mA
Peak Wavelength	λ p	----	639	----	nm	IF=20mA
Dominant Wavelength	λ d	----	625	----	nm	IF=20mA
Spectrum Radiation Bandwidth	△ λ	---	20	----	nm	IF=20mA
Forward Voltage	VF	----	2.0	2.4	V	IF=20mA
Reverse Current	IR	----	----	10	μA	VR=5V
Reverse Voltage	VR	5	20	----	V	IR=100 μA

■ Specifications for Bin Grading:(unit : mW/sr)

Condition:20mA

Bin Grading	Min.	Typ.	Max.
Rank K	8.5	----	10.2
Rank L	10.2	----	12.2
Rank M	12.2	----	14.7
Rank N	14.7	----	17.6

Bin Grading	Min.	Typ.	Max.
Rank P	17.6	----	21.2
Rank Q	21.2	----	25.4
Rank R	25.4	----	30.5
Rank S	30.5	----	36.5
Rank T	36.5	----	43.9
Rank U	43.9	----	52.6

■ Notes :

Tolerance for each bin will be ± 10%



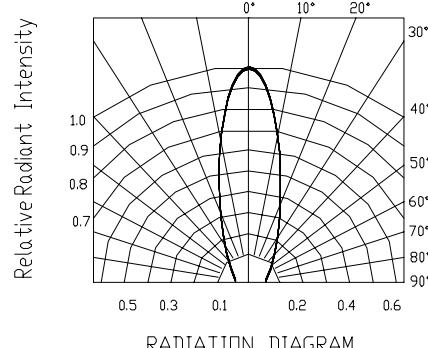
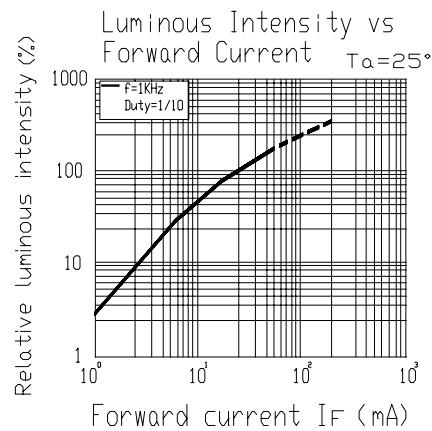
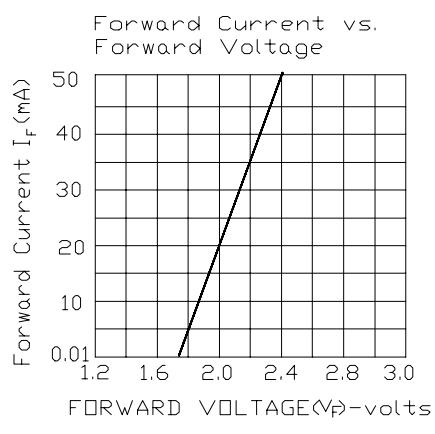
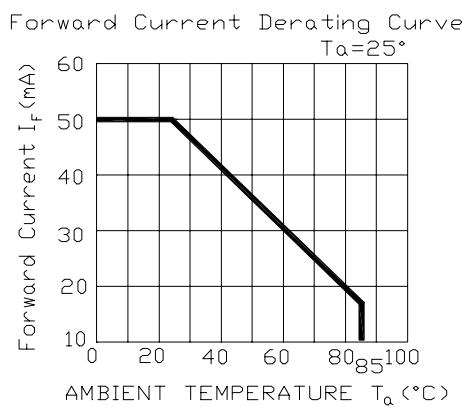
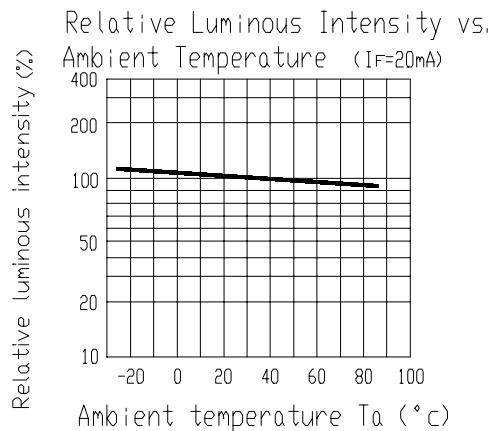
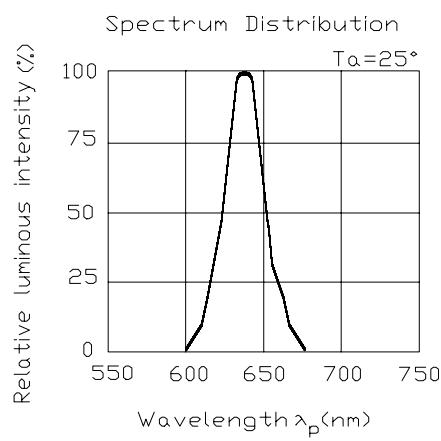
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■ Typical Electro-Optical Characteristic Curves





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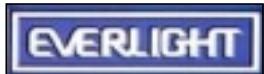
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■ Reliability test items and conditions

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



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■ Test Method For Power:

Condition: If=20mA (Before any measurement being done, make sure that the constant current has been confirmed by using multi-functional instrument)

TEST Item: Radiane Intesity

Unit:Mw/sr

Test machine supplier: UNITED DETECTOR TECHNOLNY(USA)

Model: S370

