



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

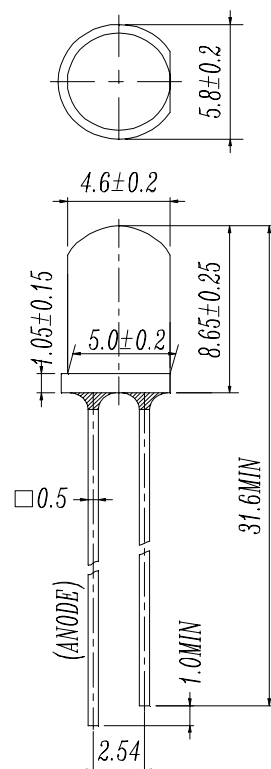
■ Features :

- 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 ± 0.25 mm

PART NO	Chip		Lens Color
	Material	Emitted Color	
7343USRC/S1029	AlGaInP	Super Red	Water Clear

OFFICE : NO. 25,Lane 76,Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000,2267-9936

FAX : 886-2-2267-6244,22676189,22676306

<http://www.everlight.com>



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

PART NO : 7343USRC/S1029 ECN : Page: 2/5

■ 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	2 θ 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	μ A	VR=5V
Reverse Voltage	VR	5	20	----	V	IR=100 μ A

■ 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%



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-734-001

REV: 2.0

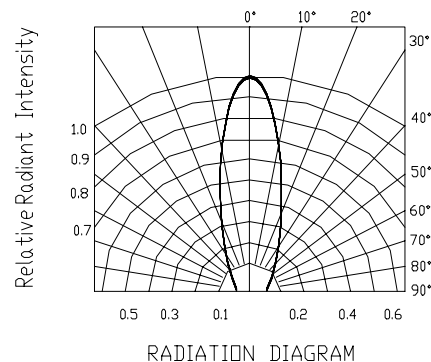
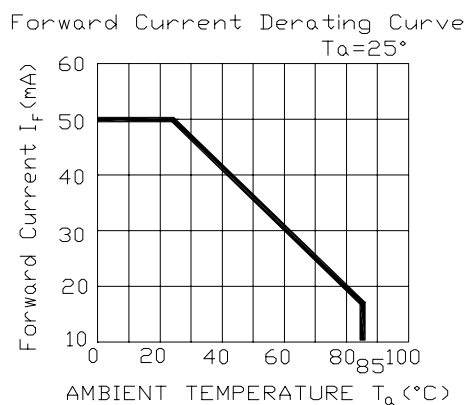
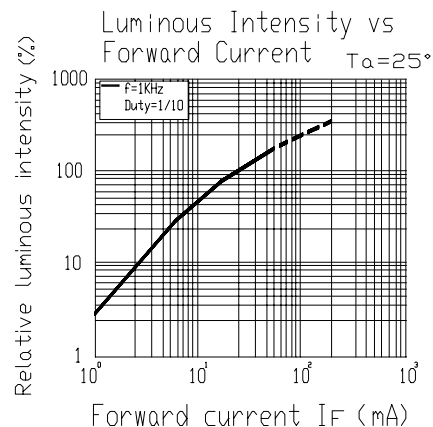
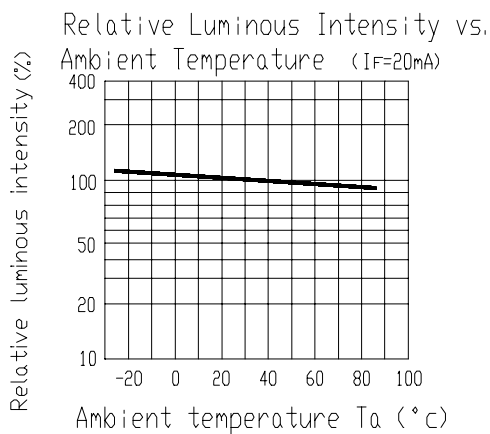
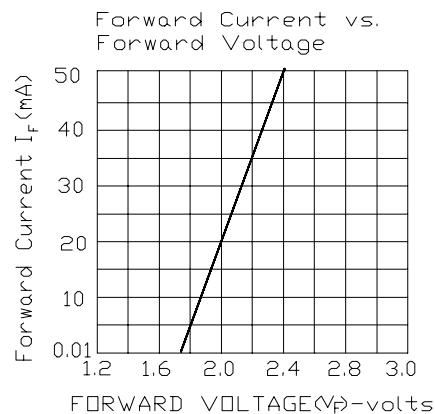
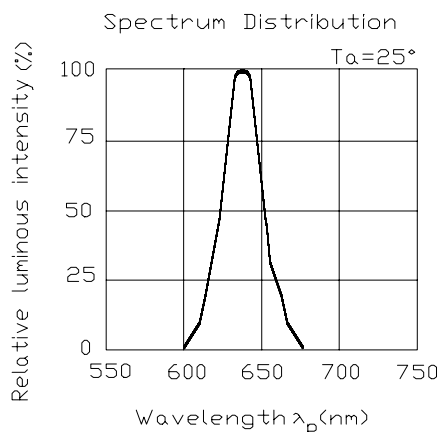
T-1 3/4 (5mm) Round Shape LEDs

PART NO : 7343USRC/S1029

ECN :

Page: 3/5

Typical Electro-Optical Characteristic Curves





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: 4/5

■ 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



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: 5/5

■ Test Method For Power:

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

TEST Item: Radiant Intensity

Unit: mW/sr

Test machine supplier: UNITED DETECTOR TECHNOLOGY(USA)

Model: S370

