EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-038-126 REV: 1.0

T-1 3/4(5mm) High lntensity LEDs

MODEL NO : 383-2UYC/S530-A3 ECN : Page: 1/4

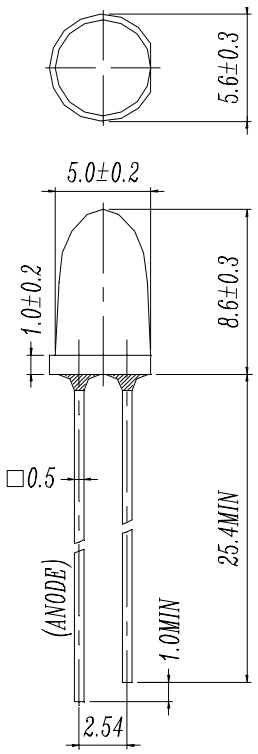
Features :

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

Description :

- The series is specially designes for applications require higher brightness than that achievable with standard lamp.
- The LED lamps are available with different colors,intensities, epoxy colors, etc.

Package Dimension:



Applications :

- TV Set
- Monitor
- Telephone
- Computer

NOTES :

1.All dimensions are in millimeter.
2.An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
383-2UYC/S530-A3	AlGaInP	Super Yellow	Water Clear

DESIGNER	CHECKER	APPROVER

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

TEL : 886-2-2267-2000,2267-9936(22 Lines)
FAX : 886-2-2267-6189

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

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■ Absolute Maximum Ratings at Ta = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	If	25	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
Electrostatic Discharge :	ESD	2000	V
Soldering Temperature	Tsol	260 ± 5	℃
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA
Reverse voltage	Vr	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous intensity	Iv	---- 2710	286 4770	-----	mcd	If=2mA If=20mA
Viewing Angle	2 θ 1/2	----	6	----	deg	If=20mA
Peak Wavelength	λ p	----	591	-----	nm	If=20mA
Dominant Wavelength	λ d	----	589	----	nm	If=20mA
Spectrum Radiation Bandwidth	$\triangle\lambda$	---	15	----	nm	If=20mA
Forward Voltage	Vf	----	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μA	Vr=5V

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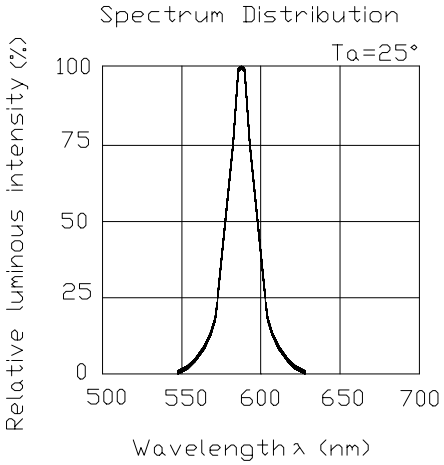
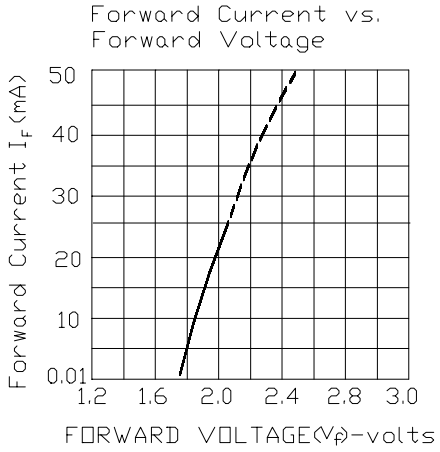
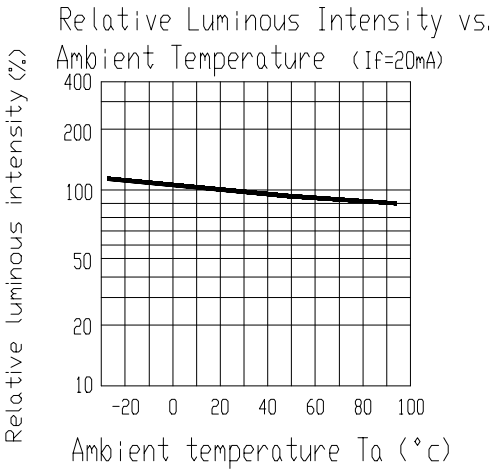
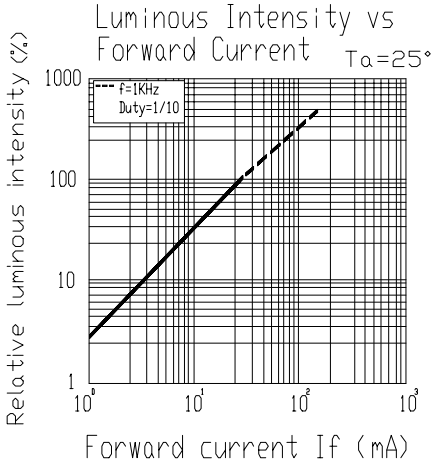
MODEL NO 383-2UYC/S530-A3 ECN : Page: 3/4

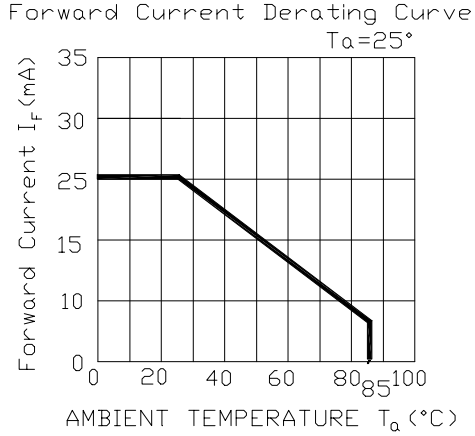
■ Typical Electro-Optical Characteristic Curves

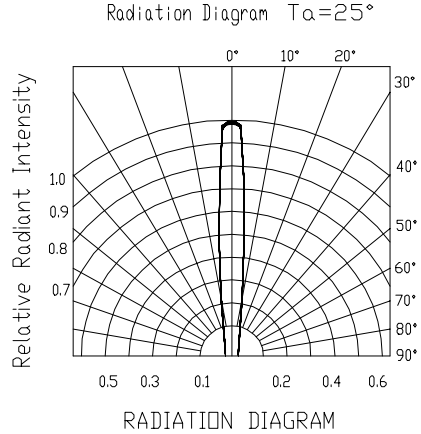












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■ Reliability test items and conditions

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260℃ ± 5 ℃	5 SEC	76 Pcs	0/1
2	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLE	76 Pcs	0/1
3	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLE	76 Pcs	0/1
4	High Temperature Storage	TEMP : 100℃	1000 HRS	76 Pcs	0/1
5	Low Temperature Storage	TEMP : -55℃	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℃/85% RH	1000 HRS	76 Pcs	0/1