EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-122-072 REV: 1.0

3mm Round LEDs

MODEL NO : 1224SYGC/S530-E1 ECN : Page: 1/4

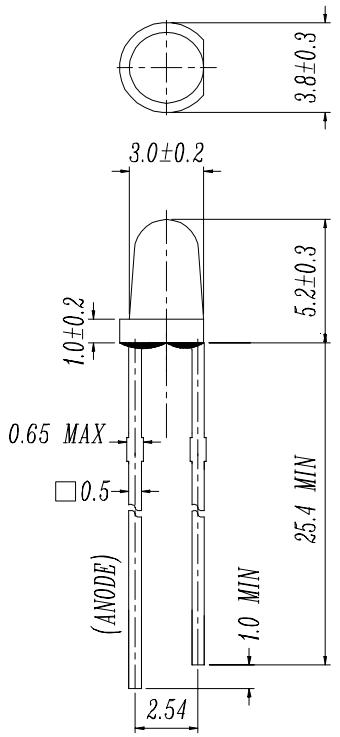
Features :

- High luminous power.
- Can be driven at low current.
- 2.54mm lead spacing.
- Available on tape and reel.

Description :

- The series is specially designed 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 millimeters.
2.An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.

PART NO	CHIP		Lens Color
	Material	Emitted Color	
1224SYGC/S530-E1	AlGaInP	Super Yellow Green	Water Clear

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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■ Absolute Maximum Ratings at T_A = 25℃

Parameter	Symbol	Rating	Unit
Forward Current	If	25	mA
Operating Temperature	Topr	-40 to +85	℃
Storage Temperature	Tstg	-40 to +100	℃
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	--- 40	4.5 70	----	mcd	If=2mA If=20mA
Viewing Angle	2 θ 1/2	------	25	----	deg	If=20mA
Peak Wavelength	λ p	----	575	----	nm	If=20mA
Dominant Wavelength	λ d	-----	573	-----	nm	If=20mA
Spectrum Radiation Bandwidth	$\triangle \lambda$	----	20	----	nm	If=20mA
Forward Voltage	Vf	----	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μ A	Vr=5V

ESD: 2000

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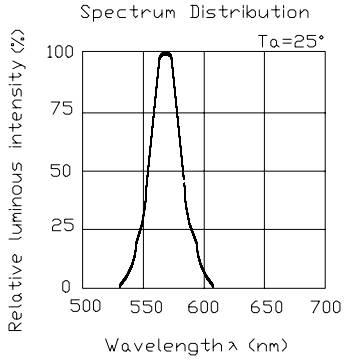
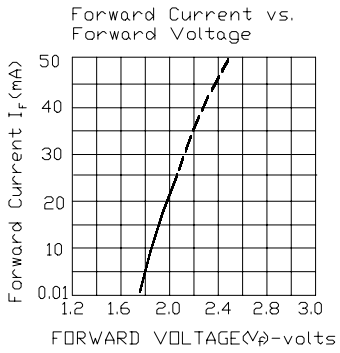
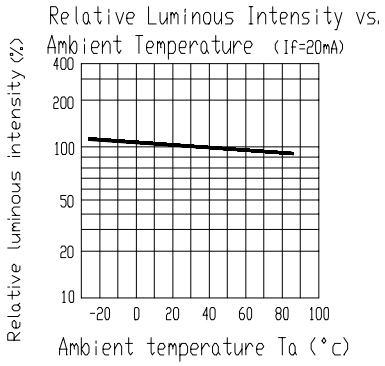
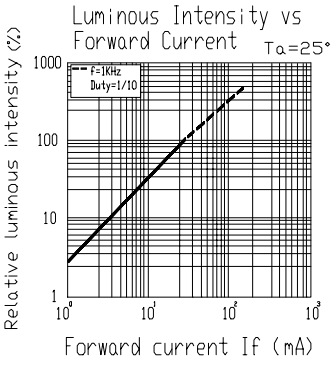
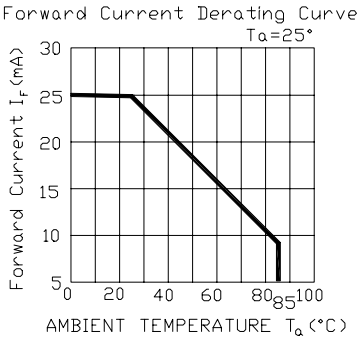
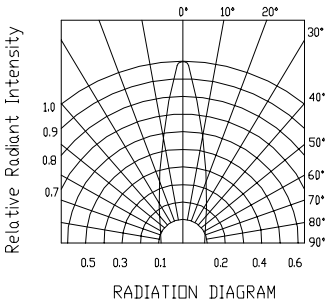
■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260℃ ± 5 ℃	10±1 SEC	76 Pcs	0/1
2	Solderability	TEMP : 230℃ ± 5 ℃	5±1 SEC	76 Pcs	0/1
3	Temperature Cycle	H : +85℃ 30min ∫ 5 min L : -55℃ 30min	50 CYCLE	76 Pcs	0/1
4	Thermal Shock	H : +100℃ 5min ∫ 10 sec L : -10℃ 5min	50 CYCLE	76 Pcs	0/1
5	High Temperature Storage	TEMP : 100℃	1000 HRS	76 Pcs	0/1
6	Low Temperature Storage	TEMP : -55℃	1000 HRS	76 Pcs	0/1
7	DC Operating Life	If = 20 mA	1000 HRS	76 Pcs	0/1
8	High Temperature / High Humidity	85℃/85% RH	1000 HRS	76 Pcs	0/1

3mm Round LEDs

■ Typical Electro-Optical Characteristic Curves