



3mm Round LEDs

MODEL NO : 1224SYGC/S530-E2 ECN : Page: 1/4

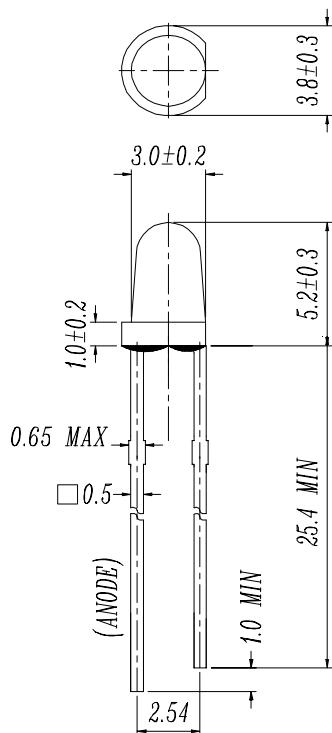
■ Features :

- 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-E2	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



3mm Round LEDs

MODEL NO : 1224SYGC/S530-E2 ECN : Page: 2/4■ Absolute Maximum Ratings at $T_A = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Forward Current	If	25	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
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	--- 90	7.2 120	----	mcd	If=2mA If=20mA
Viewing Angle	$2\theta_{1/2}$	-----	25	----	deg	If=20mA
Peak Wavelength	λ_p	----	575	----	nm	If=20mA
Dominant Wavelength	λ_d	----	573	----	nm	If=20mA
Spectrum Radiation Bandwidth	$\Delta\lambda$	----	20	----	nm	If=20mA
Forward Voltage	Vf	----	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	---	10	μA	Vr=5V

ESD: 2000



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-122-071 REV: 1.0

3mm Round LEDs

MODEL NO 1224SYGC/S530-E2 ECN : Page: 4/4

■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Soldering Heat	TEMP : 260°C ± 5 °C	10±1 SEC	76 Pcs	0/1
2	Solderability	TEMP : 230°C ± 5 °C	5±1 SEC	76 Pcs	0/1
3	Temperature Cycle	H : +85°C 30min ↓ 5 min L : -55°C 30min	50 CYCLE	76 Pcs	0/1
4	Thermal Shock	H : +100°C 5min ↓ 10 sec L : -10°C 5min	50 CYCLE	76 Pcs	0/1
5	High Temperature Storage	TEMP : 100°C	1000 HRS	76 Pcs	0/1
6	Low Temperature Storage	TEMP : -55°C	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°C/85% RH	1000 HRS	76 Pcs	0/1



3mm Round LEDs

MODEL NO : 1224SYGC/S530-E2

ECN :

Page: 3/4

■ Typical Electro-Optical Characteristic Curves

