



# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number :     DLE-033-723     REV:     1.1    

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

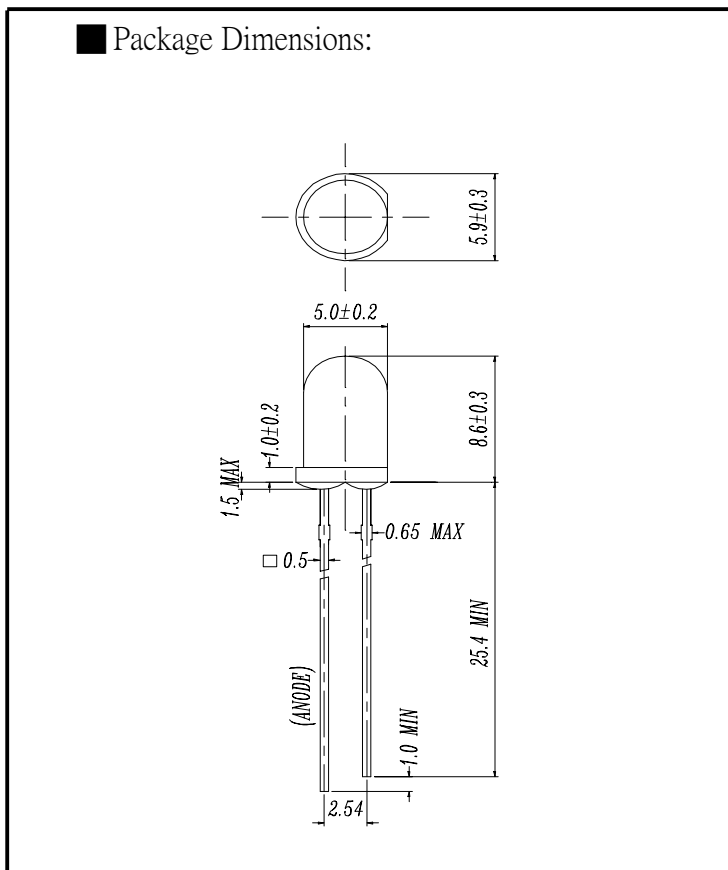
PART NO :     333-2SYGC/S530-E1     ECN :                              Page:     1/4    

■ Features :

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

■ Descriptions :

- The series is specially designs for applications requiring higher brightness.
- The LED lamps are available with different colors,intensities, epoxy colors, etc.



■ 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	
333-2SYGC/S530-E1	AlGaInP	Super Yellow Green	Water Clear

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■ Absolute Maximum Ratings at Ta = 25°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
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	160	mA
Reverse voltage	VR	5	V

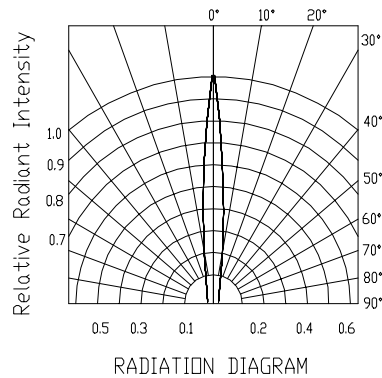
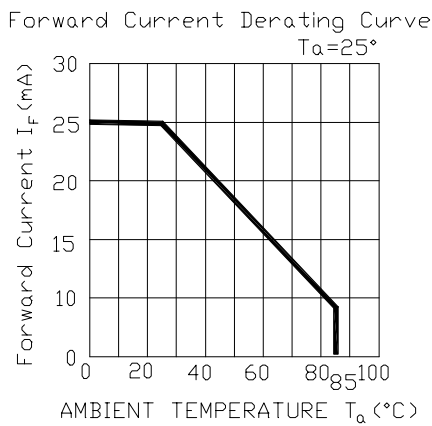
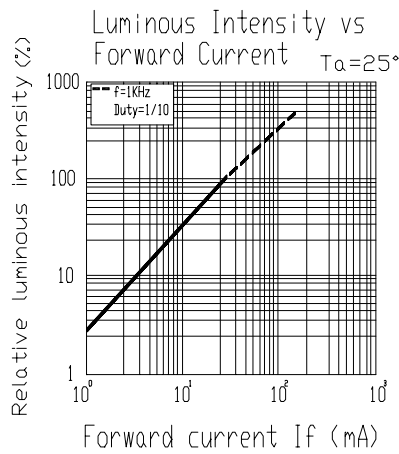
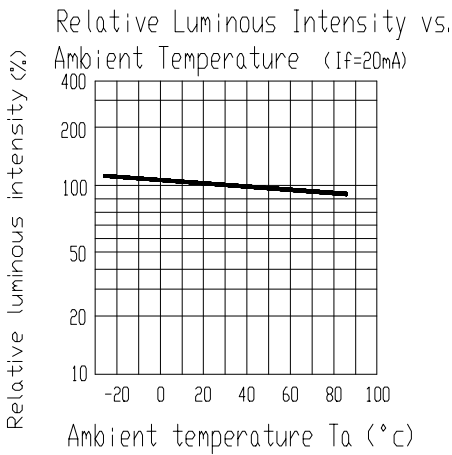
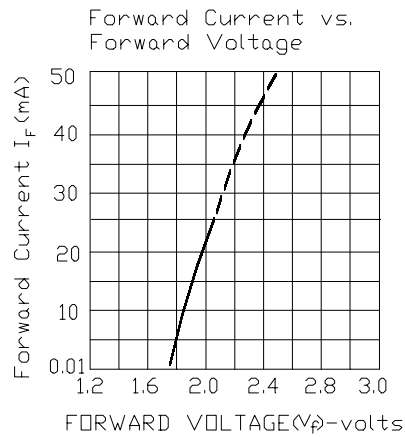
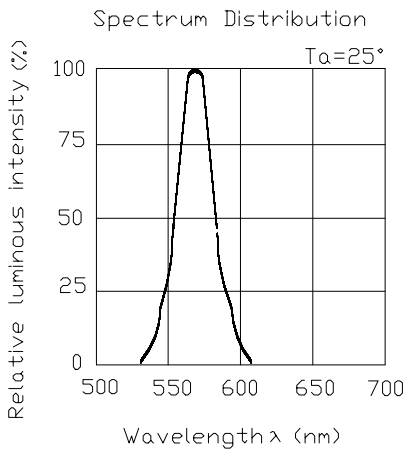
■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	----- 230	21 340	----	mcd	IF=2mA IF=20mA
Viewing Angle	2θ 1/2	----	10	----	deg	IF=20mA
Peak Wavelength	λ p	----	575	----	nm	IF=20mA
Dominant Wavelength	λ d	----	573	---	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



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■ 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	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Solderability	TEMP : 230°C ± 5 °C	5±1 SEC	76 PCSs	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