

# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DLE-033-856 REV: 1.0

5.0mm Bi-Color (Multi-Color)With common Cathode(0.1"Lead Pitch)LEDs,T-1 3/4

MODEL NO : 339-1SURSYGC/S530-A2 ECN : \_\_\_\_\_ Page: 1/5

**Features :**

- Two chips are matched for uniform light output.
- Long life-solid state reliability
- IC compatible/Low power consuming

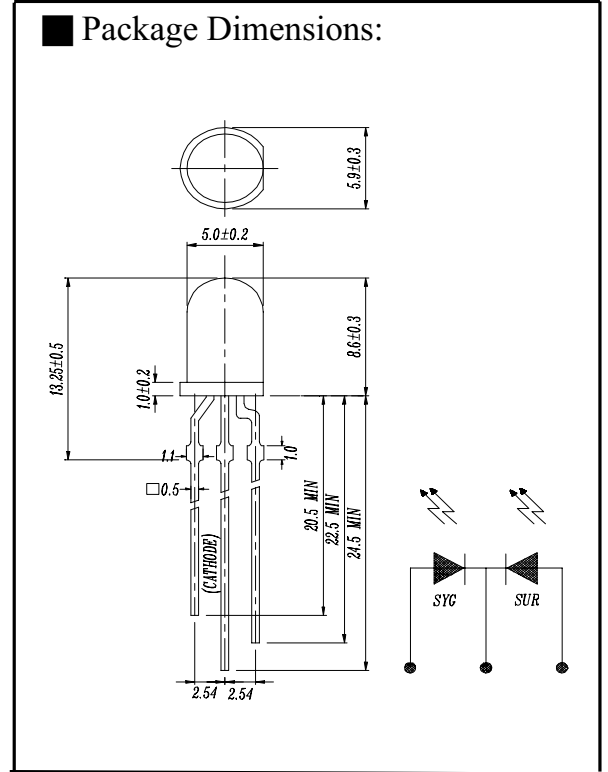
**Descriptions :**

- The 339-1 LED lamps contain two integral chips and is available as both bicolor and bi color types.
- The Hyper Red and Super Yellow Green Light is emitted by diodes of AlGaInP and AlGaInP respectively.

**Applications :**

- TV set
- Monitor
- Telephone
- Computer

**Package Dimensions:**



**Notes :**

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

PART NO	Chip		Lens Color
	Material	Emitted Color	
339-1SURSYGC/S530-A2	AlGaInP	Hyper Red	Water Clear
	AlGaInP	Super Yellow Green	

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■ Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Rating	Unit
Forward Current	IF	SUR    25	mA
		SYG    25	
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	SUR    60	mW
		SYG    60	
Peak Forward Current (Duty 1/10 @ 1KHZ)	IF	SUR    160	mA
		SYG    160	
Reverse Voltage	VR	5	V

■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv    SUR	160	250	∕	mcd	IF= 20 mA
	SYG	160	250	∕		
Viewing Angle	2θ 1/2	∕	25	∕	deg	IF= 20 mA
Peak Wavelength	λp    SUR	∕	632	∕	nm	IF= 20 mA
	SYG	∕	575	∕		
Dominant Wavelength	λd    SUR	∕	624	∕	nm	IF= 20 mA
	SYG	∕	573	∕		
Spectrum Radiation Bandwidth	Δλ    SUR	∕	20	∕	nm	IF= 20 mA
	SYG	∕	20	∕		
Forward Voltage	VF    SUR	∕	2.0	2.4	V	IF= 20 mA
	SYG	∕	2.0	2.4		
Reverse Current	IR	∕	∕	10	μ A	VR= 5 V

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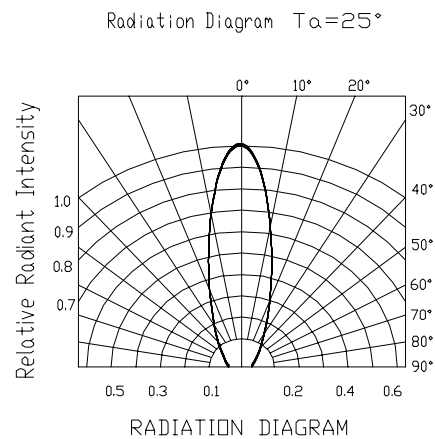
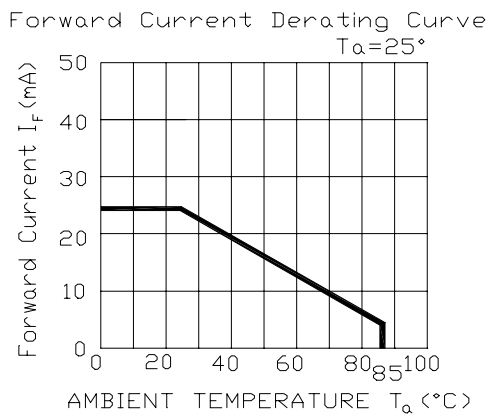
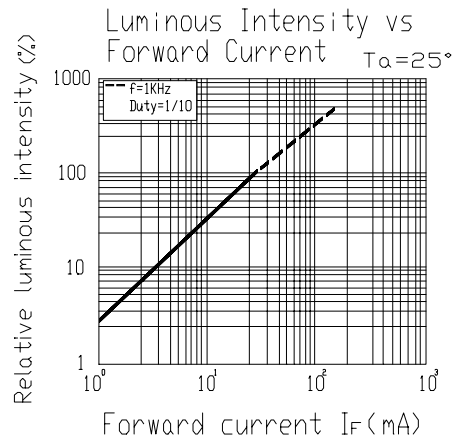
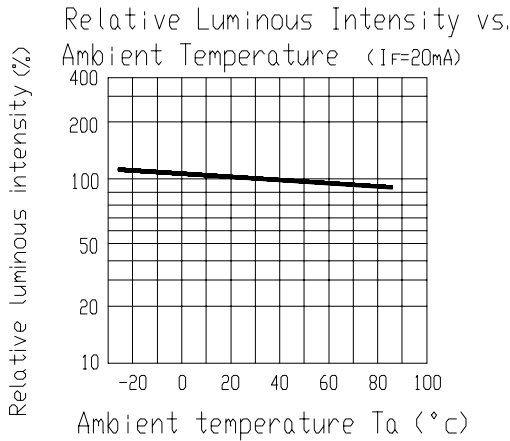
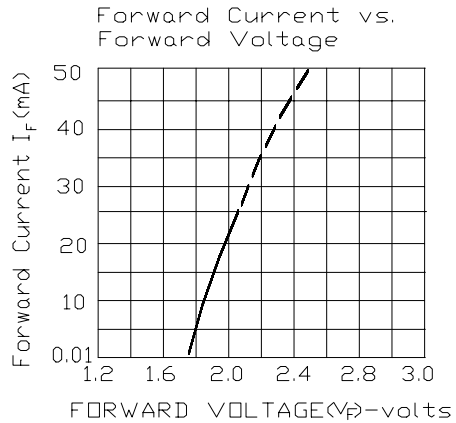
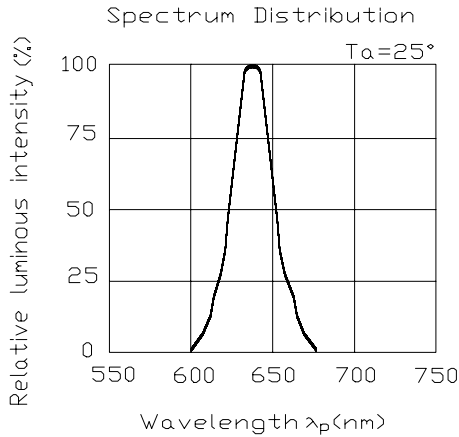
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■ Typical Electro-Optical Characteristic Curves

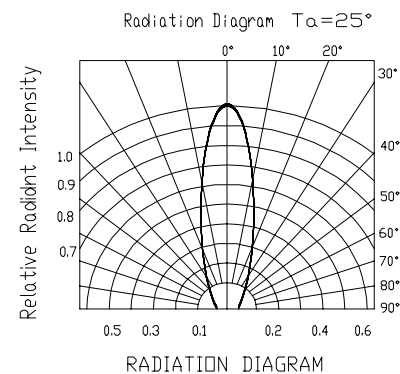
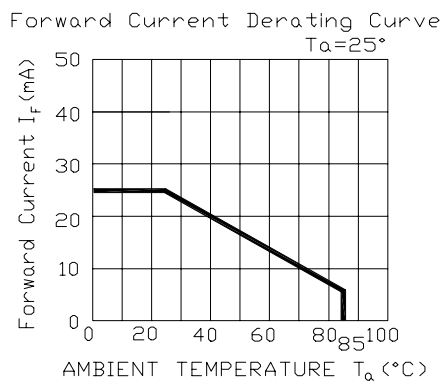
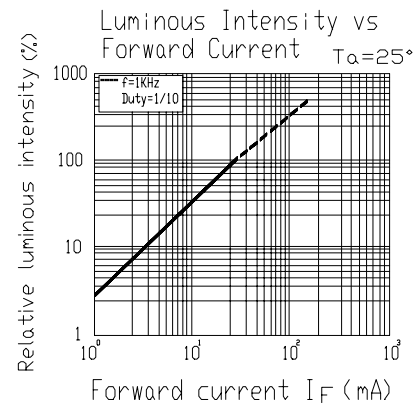
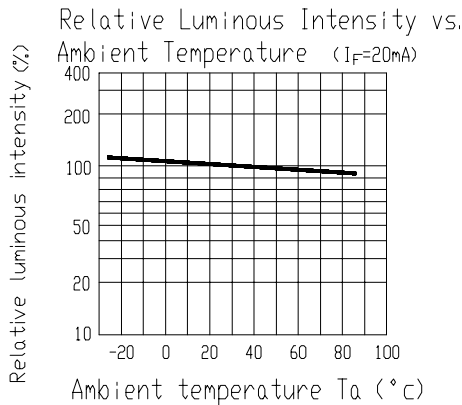
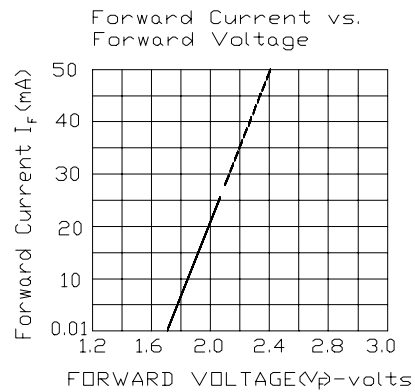
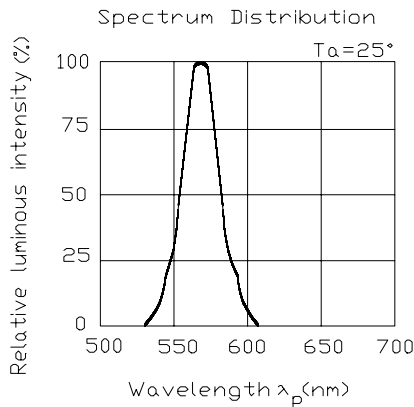
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■ Reliability test items and conditions

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	Temperature Cycle	H : +85°C 30min ∫ 5 min L : -55°C 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLE	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