

Device Number: DLE-033-780 REV: 1.0

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

MODEL NO: 339-1SURSYGW/S530-A2 ECN: Page: 1/5

Features:

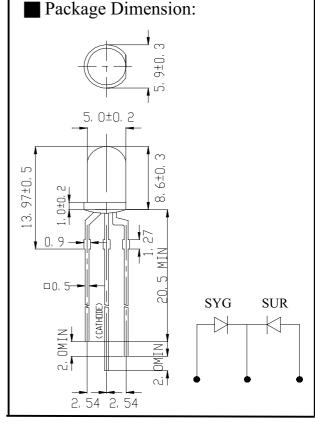
- Two chips are matched for uniform light output, wide viewing angle
- Long life-solid state reliability
- I.C. compatible/Low power consumpting

Description:

- The 339-1 LED lamp contain two integral chips and are available as both bicolor and bipolar types.
- The Hyper Red and Super Yellow Green Light is emitted by diodes of AlGaInP and AlGaInP respectively.
- Type of bipolar lamps are both white diffused and color diffused while the bicolor are white diffused.

Applications:

- TV set
- Monitor
- Telephone
- Computer



NOTES:

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

PART NO	CHIP		CHIP		Lens Color
	Material	Emitted Color			
339-1SURSYGW/S530-A2	AlGaInP	Hyper Red	White Diffused		
	AlGaInP	Super Yellow Green			

DESIGNER	CHECKER	APPROVER

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

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FAX: 886-2-2267-6189



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Absolute Maximum Ratings at $T_A = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Forward	If	SUR 25	mA
Current		SYG 25	
Operating Temperature	Topr	-40 to +85	$^{\circ}\mathbb{C}$
Storage Temperature	Tstg	-40 to +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature	Tsol	260 ± 5	$^{\circ}\!\mathbb{C}$
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	SUR 60	mW
		SYG 60	
Peak Forward Current	If(Peak)	SUR 160	mA
(Duty 1/10 @ 1KHZ)		SYG 160	
Reverse Voltage	Vr	5	V

■ Electronic Optical Characteristics:

Parameter	Symb	ool	MIN.	TYP.	MAX.	Unit	Condition
Luminous	Iv	SUR	63.00	100.00	/	mcd	If= 20 mA
Intensity		SYG	40.00	63.00	/		
Viewing Angle	2 \theta 1/2		/	30	/	deg	If= 20 mA
Peak Wavelength	λр	SUR	/	632	/	nm	If= 20 mA
		SYG	/	575	/		
Dominant	λd	SUR	/	624	/	nm	If= 20 mA
Wavelength		SYG	/	573	/		
Spectrum Rediation	Δλ	SUR	/	20	/	nm	If= 20 mA
Bandwidth		SYG	/	20	/		
Forward Voltage	Vf	SUR	/	2.0	2.4	V	If= 20 mA
		SYG	/	2.0	2.4		
Reverse Current	Ir		/		10	μΑ	Vr= 5 V



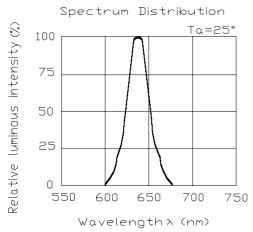
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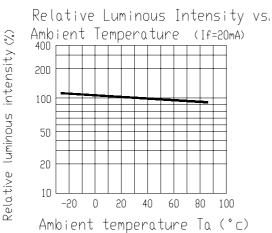
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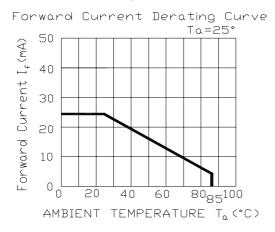
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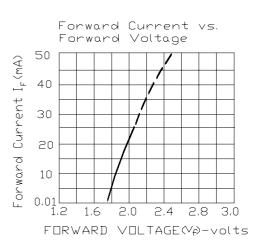
■ Typical Electro-Optical Characteristic Curves

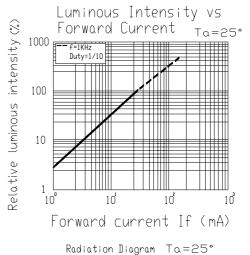
SUR

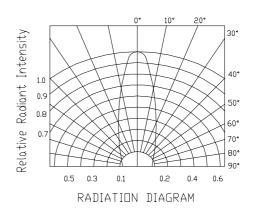














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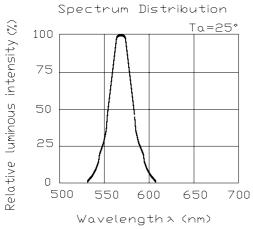
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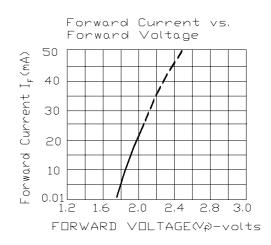
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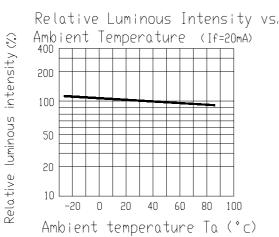
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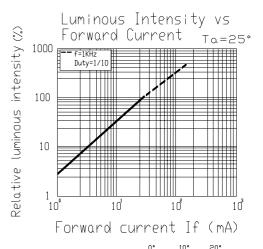
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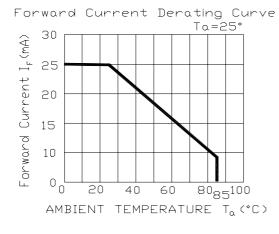
SYG

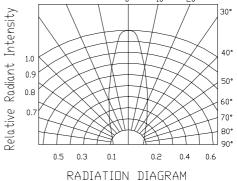














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■ Reliability test item and condition

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260° C ± 5 $^{\circ}$ 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: $+100^{\circ}$ C 5min $\int 10 \sec$ 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