

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

PART 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
- IC compatible/Low power consumpting

Descriptions:

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

Package Dimensions: **Total Package Dimensions:** **Total Pa

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		Lens Color
	Material	Emitted Color	
339-1SURSYGW/S530-A2	AlGaInP	Hyper Red	White Diffused
	AlGaInP	Super Yellow Green	

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

TEL: 886-2-2267-2000,2267-9936

FAX: 886-2-2267-6244,22676189,22676306

http://www.everlight.com



Device Number: DLE-033-780 REV: 1

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

PART NO: _____339-1SURSYGW/S530-A2 ____ ECN: ____ Page: ___2/5

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

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	VF	5		V

■ Electronic Optical Characteristics:

Parameter	Symb	ool	Min.	Тур.	Max.	Unit	Condition
Luminous	Iv	SUR	63	100	/	mcd	IF= 20 mA
Intensity		SYG	40	63	/		
Viewing Angle	2 θ 1/2		/	30	/	deg	IF= 20 mA
Peak Wavelength	λp	SUR	/	632	/	nm	IF= 20 mA
		SYG	/	575	/		
Dominant	λd	SUR	/	624	/	nm	IF= 20 mA
Wavelength		SYG	/	573	/		
Spectrum Radiation	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



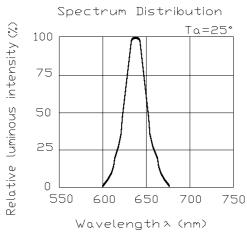
Device Number: DLE-033-780 REV: 1.0

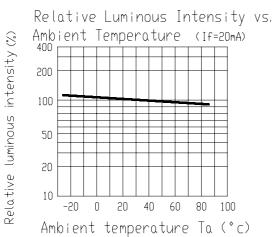
5.0mm Bi-Color (Multi-Color) With common Cathode (0.1" Lead Pitch) LEDs, T-1 3/4

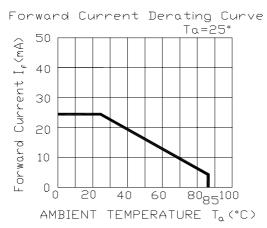
PART NO: __339-1SURSYGW/S530-A2 __ ECN: ____ Page: ___3/5

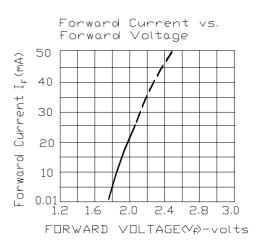
■ Typical Electro-Optical Characteristic Curves

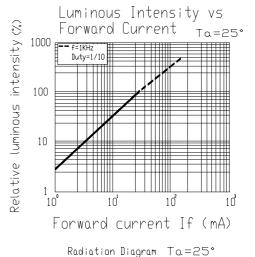
SUR

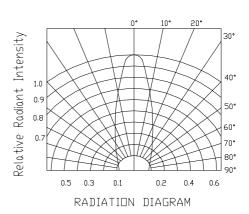














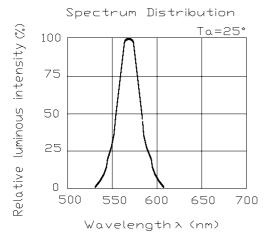
Device Number: DLE-033-780 REV: 1.0

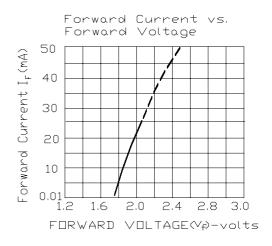
5.0mm Bi-Color (Multi-Color) With common Cathode (0.1" Lead Pitch) LEDs, T-1 3/4

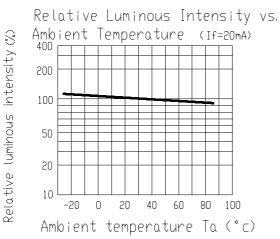
PART NO: __339-1SURSYGW/S530-A2 __ ECN: ____ Page: __4/5

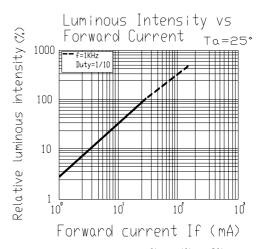
■ Typical Electro-Optical Characteristic Curves

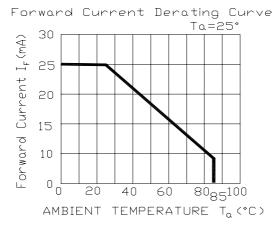
SYG

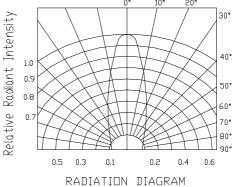














	Device Number:	<u>DLE-033-78</u>	$0 \qquad \qquad$ REV:	1.0
D: 0.1		C 1 1 (0.10T	1.01. 1.4.00	T. 1. 0.14

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

PART NO: <u>339-1SURSYGW/S530-A2</u> ECN: Page: <u>5/5</u>

■ Reliability test items and conditions

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°C 5min ∫ 10 sec L:-10°C 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100℃	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