

# **Technical Data Sheet HIGH POWER LED**

### 30-01UYC/S1029

#### **Benefits**

- . Fewer LEDs Required
- . Lowers Lighting System Cost

#### **Features**

- . High Flux Output.
- . Designed for High Current Operation.
- . Low Thermal Resistance.
- . Low Profile.
- . Packaged in Tubes for Use with Automatic Insertion Equipment.
- . Pb free.
- . The product itself will remain within RoHS compliant version.



### **Descriptions**

This revolutionary package design allows the light designer to reduce the number of LEDs required and provide a more uniform and unique illuminated appearance than with other LED solutions.

This is possible through the efficient optical package design and high-current capabilities.

The low profile package can be easily coupled with reflectors or lenses to efficiently distribute light and provide the desired light appearance.

This product family employs the world's brightest red-orange and amber LED materials, which allow designers to match the color of popular lighting applications, such as automotive tail, stop, and turn signal lamps, and electronic signs.

## **Applications**

- . Automotive Exterior Lighting
- . Electronic Signs and Signals

### **Device Selection Guide**

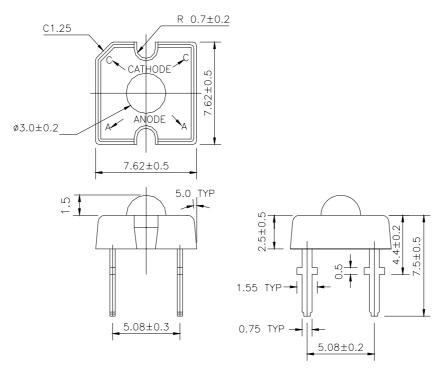
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PART NO	Material	<b>Emitted Color</b>	Lens Color
30-01UYC/S1029	AlInGaP	Super Yellow	Water Clear

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# **Package Dimensions**



**Notes:** 1.All dimensions are in millimeters

2. Tolerances unless dimensions ±0.25mm

# **Absolute Maximum Ratings (Ta=25°C)**

Parameter	Symbol	Rating	Units
Continuous Forward Current	$I_{\mathrm{F}}$	70	mA
Peak Forward Current	$I_{FP}$	200	mA
(Duty 1/10 @ 1KHZ)			
Reverse Voltage	$V_R$	5	V
Operating Temperature	T <sub>opr</sub>	<b>-</b> 40 ∼ +85	$^{\circ}$
Storage Temperature	$T_{stg}$	-40 ~ +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature(T=5 sec)	$T_{sol}$	$260 \pm 5$	$^{\circ}$
Power Dissipation at(or below)	$P_d$	203	mW
25°C Free Air Temperature			
Electrostatic Discharge	ESD	2KV	V

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# **Electro-Optical Characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Тур.	Max.	Condition	Unit
Total Flux	Φv		3000		I=70mA	mlm
Viewing Angle	2 θ 1/2		90		IF=20mA	deg
Peak Wavelength	λр		589		I=20mA	nm
<b>Dominant Wavelength</b>	λd		591		I=20mA	nm
Spectrum Radiation Bandwidth	$\triangle \lambda$		15		IF=20mA	nm
Forward Voltage	VF		2.60		I=20mA	V
Reverse Current	IR			10	V <sub>R</sub> =5V	μΑ
Recommened Operating Current	IF (Rec)	20		70		mA
DC Forward Current	IF (mA)			70		mA

### Rank

30-01UYC/S1029			
	(1)	(2)	(3)

	(1) VF(v)	)	$(2) \lambda d(nm)$		$(3) \Phi v(lm)$			
Bin	Min	Max	Bin	Min	Max	Bin	Min	Max
Y	1.78	2.07	1	585	591	А	0.6	1.2
Z	1.95	2.19	2	589	594	В	1.0	1.8
0	2.07	2.31	3	592	597	С	1.5	2.4
1	2.19	2.43				D	2.0	3.0
2	2.31	2.55				Е	2.5	3.6
3	2.43	2.67				F	3.0	4.2
4	2.55	2.79				G	3.5	4.8
5	2.67	2.91				Н	4.0	6.1
6	2.79	3.09				J	5.0	7.3
7	2.97	3.41						

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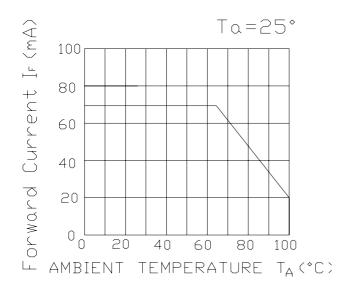
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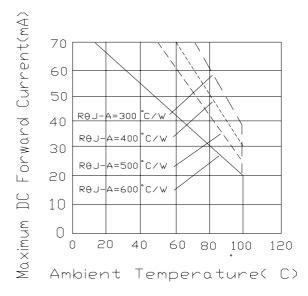
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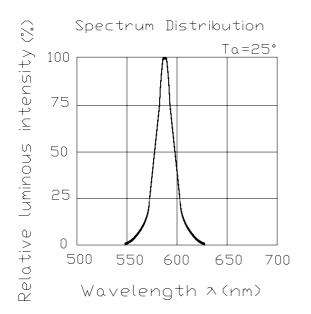
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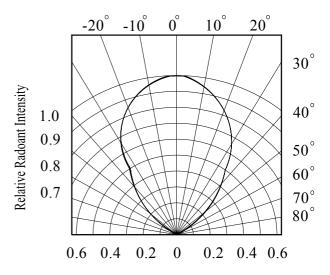


# **Typical Electro-Optical Characteristics Curves**









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### **Packing Quantity Specification**

- 1.60PCS/1Tube
- 2.30Tube/1Box
- 3.3Box/1Carton

### **Label Form Specification**



CPN: Customer's Production Number

P/N : Production Number QTY: Packing Quantity

CAT: Ranks HUE: Space REF: Reference

LOT No: Lot Number

MADE IN TAIWAN: Production Place

#### **Notes**

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- 3. These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.

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