

#### **Features**

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



30-01/Y5C-ARTC

#### **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.

#### Applications

- . Automotive Lighting
- . Electronic Signs and Signals
- . Channel Letter
- . Special Lighting application

#### **Device Selection Guide**

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PART NO.	Material Emitted Color		Lens Color
30-01/Y5C-ARTC	AlGaInP	Yellow	Water Clear

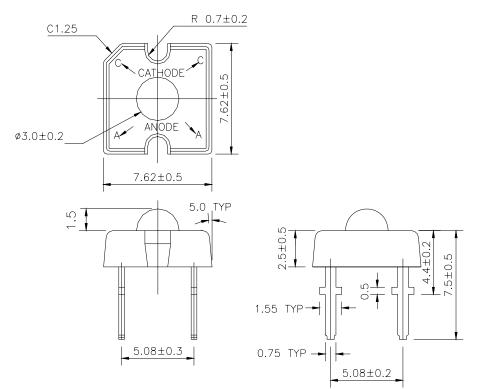
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### 30-01/Y5C-ARTC

#### **Package Dimensions**





2. An epoxy meniscus may extend about 1.5mm (0.059") down the leads 3. Tolerances unless dimensions  $\pm 0.25$ mm

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

Parameter	Symbol	Rating	Units
Continuous Forward Current	$I_{\rm F}$	70	mA
Peak Forward Current(Duty 1/10 @ 1KHZ)	I <sub>FP</sub>	160	mA
Operating Temperature	T <sub>opr</sub>	-40 ~ +100	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +100	°C
Soldering Temperature(T=5 sec)	T <sub>sol</sub>	$260 \pm 5$	°C
LED Junction Temperature	Tj	125	°C
Power Dissipation	P <sub>d</sub>	220	mW
Electrostatic Discharge	ESD	2000	V
Reverse Voltage	V <sub>R</sub>	5	V

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Electro-optical characteristics (1a-25 0)						
Parameter	Symbol	Min.	Тур.	Max.	Condition	Unit
Total Flux	Φv	4500	6750	9000	IF=70mA	mlm
Viewing Angle	$2 \theta 1/2$		85		IF=70mA	deg
Peak Wavelength	λp		592		IF=70mA	nm
Dominant Wavelength	λd	586	590	598	IF=70mA	nm
Spectrum Radiation Bandwidth	$ riangle \lambda$		15		IF=70mA	nm
Forward Voltage	VF	2.1	2.6	3.1	IF=70mA	V
Reverse Current	IR			10	Vr=5V	μΑ

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

#### Rank

30-01/Y5C-ARTC

(1)

(2) (3)

	(1) VF(V)		(2) $\lambda d(nm)$		$(3)\Phi v(mlm)$			
Bin	Min	Max	Bin	Min	Max	Bin	Min	Max
3	2.10	2.30	1	586	590	R	4500	5650
4	2.30	2.50	2	590	594	S	5650	7150
5	2.50	2.70	3	594	598	Т	7150	9000
6	2.70	2.90						
7	2.90	3.10						

\*Measurement Uncertainty of Forward Voltage : ±0.1V

\*Measurement Uncertainty of Luminous Intensity: ±15%

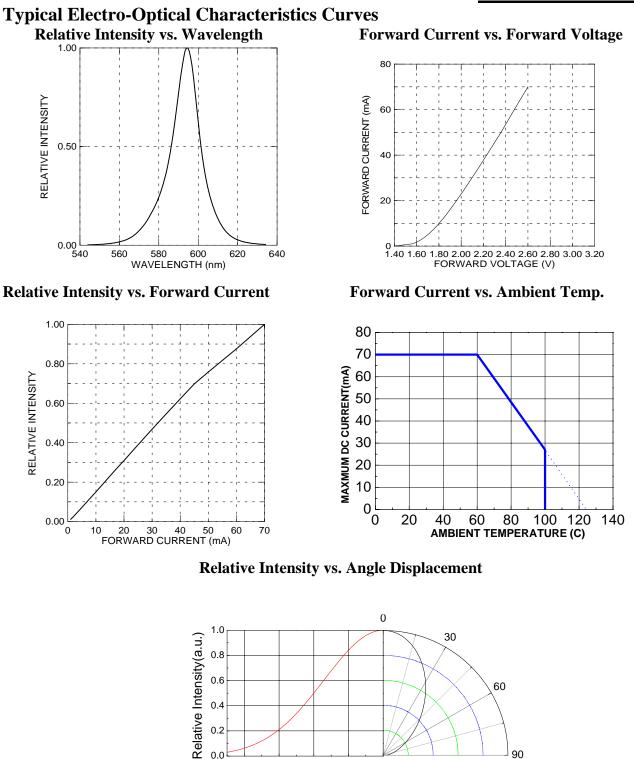
\*Measurement Uncertainty of Dominant Wavelength ±1.0nm

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### 30-01/Y5C-ARTC



Viewing Angle(degree)

-40

-60

0.0

-80

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-20

0

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90

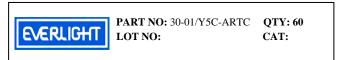
### 30-01/Y5C-ARTC

### **Packing Quantity Specification**

- (1) 60 pcs/1 tube, 30 tubes/1 small inside box, 12 small inside boxes/1 outside box
- (2) 60 pcs/1 tube, 105 tubes/1 big inside box, 4 big inside boxes/1 outside box

### Label Form Specification

(1)Tube Label Form



(2)Box Label Form

EVERLIGHT	
CPN:	
P/N:	
	<sub>RoHS</sub>
30-01/Y5C-ARTC	
QTY:	CAT:
	HUE:
LOT NO :	REF:
MADE IN TAIWAN	

PART NO: Everlgiht's Production Number

QTY: Packing Quantity

LOT NO: Lot Number

CAT: Ranks of Forward Voltage, Dominant Wavelength and Total Flux

CPN: Customer's Production Number

P/N : Production Number

HUE: Reference

**REF:** Reference

MADE IN TAIWAN: Production Place

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#### 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.
- 4. Soldering Condition

Careful attention should be paid during soldering. When soldering, leave more then 3mm from solder joint to case, and soldering beyond the base of the tie bar is recommended.

Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.

Han	d Soldering	DIP Soldering				
Temp. at tip of iron	400℃ Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)			
Soldering time	Soldering time 3 sec Max.		265 Max.			
Distance	3mm Min. (From solder joint to case)	Bath time.	5 sec Max.			
		Distance	3mm Min.			

Recommended soldering conditions:

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