

## 35-01/R3C-ARTC

#### **Features**

- . High Flux Output.
- . UV resistant epoxy
- . Low Thermal Resistance.
- . Low Profile.
- . Packaged in Tubes for Use with Automatic Insertion Equipment.
- . 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.

#### **Applications**

- . Automotive Lighting
- . Electronic Signs and Signals
- . Message boards
- . Special Lighting application

#### **Device Selection Guide**

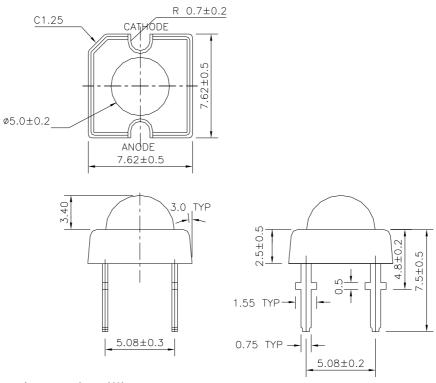
	C	I and Call	
PART NO.	Material	Emitted Color	Lens Color
35-01/R3C-ARTC	AlGaInP	Brilliant Red	Water Clear

Everlight Electronics Co., Ltd. http:\\www.everlight.com Rev.1 Page: 1 of 6
Device number: DLE-305-010 Established date: 03-27-2007 Established by: Jim Lin



## 35-01/R3C-ARTC

### **Package Dimensions**



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

2.An epoxy meniscus may extend about 1.5mm(0.059") down the leads

3. Tolerances unless dimensions ±0.25mm

## **Absolute Maximum Ratings (Ta=25℃)**

Parameter	Symbol	Rating	Units
Continuous Forward Current	$I_{\mathrm{F}}$	70	mA
Peak Forward Current(Duty 1/10 @ 1KHZ)	$I_{FP}$	200	mA
Operating Temperature	$T_{opr}$	-40 ~ +100	$^{\circ}\! \mathbb{C}$
Storage Temperature	$T_{stg}$	-40 ~ +100	$^{\circ}\! \mathbb{C}$
Soldering Temperature(T=5 sec)	$T_{sol}$	$260 \pm 5$	$^{\circ}\!\mathbb{C}$
LED Junction Temperature	$T_{\rm j}$	125	$^{\circ}\!\mathbb{C}$
Power Dissipation	$P_d$	220	mW
Electrostatic Discharge	ESD	2000	V
Reverse Voltage	$V_R$	5	V

Everlight Electronics Co., Ltd. http:\\www.everlight.com Rev.1 Page: 2 of 6

Device number: DLE-305-010 Established date: 03-27-2007 Established by: Jim Lin



## 35-01/R3C-ARTC

## **Electro-Optical Characteristics (Ta=25℃)**

Parameter	Symbol	Min.	Тур.	Max.	Condition	Unit
Total Flux	Фи	4500	6000	9000	I <sub>F</sub> =70mA	mlm
Viewing Angle	2θ1/2		25		I <sub>F</sub> =70mA	deg
Peak Wavelength	λр		632		I <sub>F</sub> =70mA	nm
<b>Dominant Wavelength</b>	λd	620	627	632	I <sub>F</sub> =70mA	nm
Spectrum Radiation Bandwidth	Δλ		20		I <sub>F</sub> =70mA	nm
Forward Voltage	VF	2.5	2.8	3.3	I <sub>F</sub> =70mA	V
Reverse Current	IR			10	V <sub>R</sub> =5V	μΑ

#### Rank

35-01/R3C-ARTC (1)

(2)

(3)

	(1) VF(V)	)	(2) λ d(nm)		$(3)\Phi v(mlm)$			
Bin	Min	Max	Bin	Min	Max	Bin	Min	Max
5	2.5	2.7	2	620	624	R	4500	5650
6	2.7	2.9	3	624	628	S	5650	7150
7	2.9	3.1	4	628	632	T	7150	9000
8	3.1	3.3						

Everlight Electronics Co., Ltd. http:\\www.everlight.com Rev.1 Page: 3 of 6

Device number: DLE-305-010 Established date: 03-27-2007 Established by: Jim Lin

<sup>\*</sup>Measurement Uncertainty of Forward Voltage: ±0.1V

<sup>\*</sup>Measurement Uncertainty of Luminous Intensity: ±15%

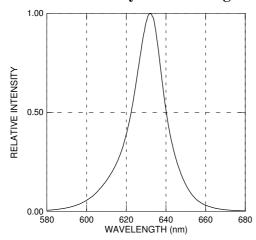
<sup>\*</sup>Measurement Uncertainty of Dominant Wavelength ±1.0nm



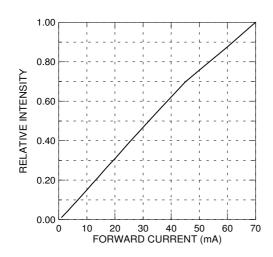
## 35-01/R3C-ARTC

### **Typical Electro-Optical Characteristics Curves**

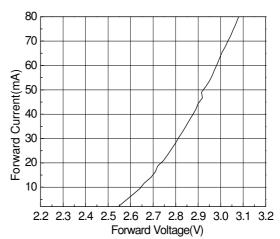
#### Relative Intensity vs. Wavelength



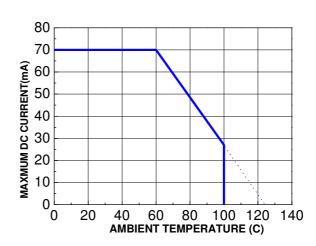
#### **Relative Intensity vs. Forward Current**



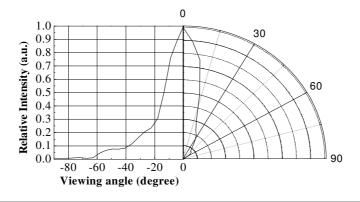
#### Forward Current vs. Forward Voltage



Forward Current vs. Ambient Temp.



#### Relative Intensity vs. Angle Displacement



Everlight Electronics Co., Ltd. http:\\www.everlight.com Rev.1 Page: 4 of 6

Device number: DLE-305-010 Established date: 03-27-2007 Established by: Jim Lin



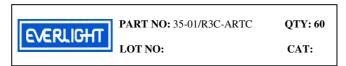
### 35-01/R3C-ARTC

## **Packing Quantity Specification**

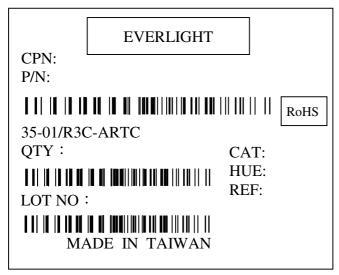
- (1) 60 pcs/1 tube, 20 tubes/1 small inside box, 12 small inside boxes/1 outside box.
- (2) 60 pcs/1 tube, 80 tubes/1 big inside box, 4 big inside boxes/1 outside box.

#### **Label Form Specification**

(1) Tube Label Form



(2)Box Label Form



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

Everlight Electronics Co., Ltd. http:\\www.everlight.com Rev.1 Page: 5 of 6
Device number: DLE-305-010 Established date: 03-27-2007 Established by: Jim Lin



## 35-01/R3C-ARTC

#### **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.

Recommended soldering conditions:

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

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http:\\www.everlight.com

Everlight Electronics Co., Ltd. http:\\www.everlight.com Rev.1 Page: 6 of 6

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