

## 34-01/R5C-ARTC

#### 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.



#### 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
- . Special Lighting application

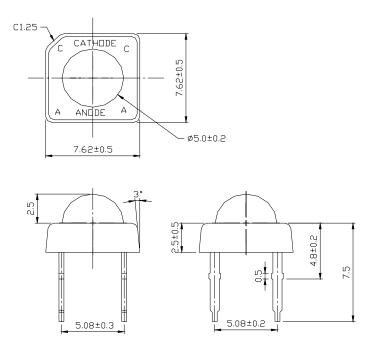
#### **Device Selection Guide**

	C		
PART NO.	Material	<b>Emitted</b> Color	Lens Color
34-01/R5C-ARTC	AlGaInP	Brilliant Red	Water Clear

http://www.everlight.com Established date: 05-10-2007

## 34-01/R5C-ARTC

#### **Package Dimensions**



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

2. An epoxy meniscus may extend about  $1.5 \mathrm{mm}(0.059")$  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
Reverse Voltage	V <sub>R</sub>	5	V
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	115	°C
Power Dissipation	P <sub>d</sub>	220	mW
Electrostatic Discharge	ESD	2K	V

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Flectro-Ontical Characteristics  $(T_2-25^\circ)$ 

## 34-01/R5C-ARTC

Electro-Optical Characteristics (1a-25 C)						
Parameter	Symbol	Min.	Тур.	Max.	Condition	Unit
Total Flux	Φv	4500	5800	9000	IF=70mA	mlm
Viewing Angle	$2 \theta 1/2$		90		IF=70mA	deg
Peak Wavelength	λp		632		IF=70mA	nm
Dominant Wavelength	λd	620	626	632	IF=70mA	nm
Spectrum Radiation Bandwidth	$ riangle \lambda$		20		IF=70mA	nm
Forward Voltage	VF	2.1	2.6	3.1	IF=70mA	V

#### Rank

34-01/R5C-ARTC

(1)





	(1) VF(V)	)	(2) $\lambda d(nm)$			$(3)\Phi v(mlm)$		
Bin	Min	Max	Bin	Min	Max	Bin	Min	Max
3	2.1	2.3	2	620	624	R	4500	5650
4	2.3	2.5	3	624	628	S	5650	7150
5	2.5	2.7	4	628	632	Т	7150	9000
6	2.7	2.9						
7	2.9	3.1						

\*Measurement Uncertainty of Forward Voltage : ±0.1V

\*Measurement Uncertainty of Luminous Intensity:  $\pm 15\%$ 

\*Measurement Uncertainty of Dominant Wavelength ±1.0nm

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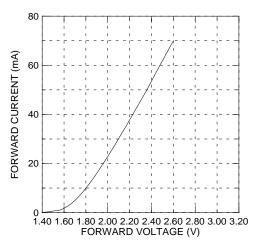
### 34-01/R5C-ARTC

# **Typical Electro-Optical Characteristics Curves**

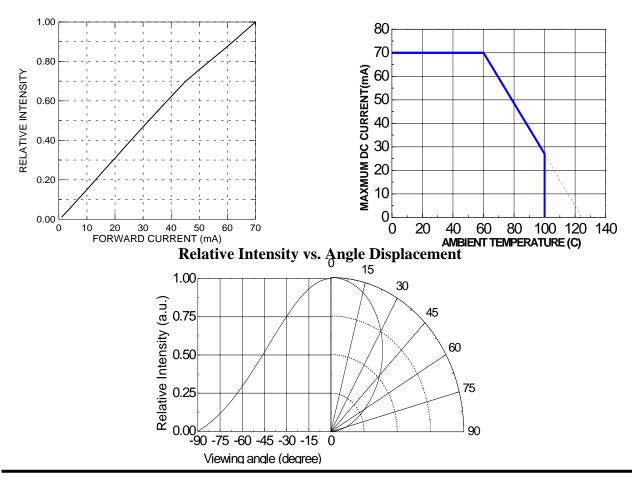
Relative Intensity vs. Wavelength

**Relative Intensity vs. Forward Current** 

#### Forward Current vs. Forward Voltage



#### Forward Current vs. Ambient Temp.



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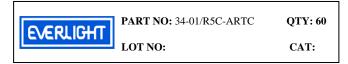
## 34-01/R5C-ARTC

#### **Packing Quantity Specification**

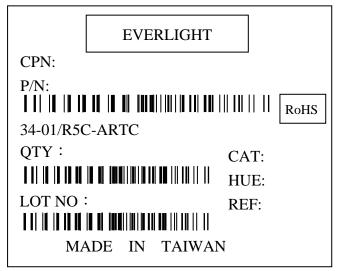
- (1) 60 pcs/1 tube, 20 tubes/1 small inside box, 12 small inside boxes/1 outside box
- (2) 60 pcs/1 tube, 80 tubes/1 big inside box, 4 big inside boxes/1 outside box

#### 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, Dominator Wavelength and Total Flux CPN: Customer's Production Number P/N : Production Number HUE: Reference REF: Reference MADE IN TAIWAN: Production Place

http:\\www.everlight.com Established date: 05-10-2007 **Notes** 

# Technical Data Sheet 5mm POWER LED

## 34-01/R5C-ARTC

# 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.

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	3mm Min.(From solder joint	Bath time.	5 sec Max.	
	to case)			
		Distance	3mm Min.	

Recommended soldering conditions:

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