

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Everlight Electronics Co Ltd](#)
[32-1/R5C-AQSC](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



Technical Data Sheet

POWER LED

32-01/R5C-AQSC

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

PART NO.	Chip		Lens Color
	Material	Emitted Color	
32-01/R5C-AQSC	AlGaInP	Brilliant Red	Water Clear

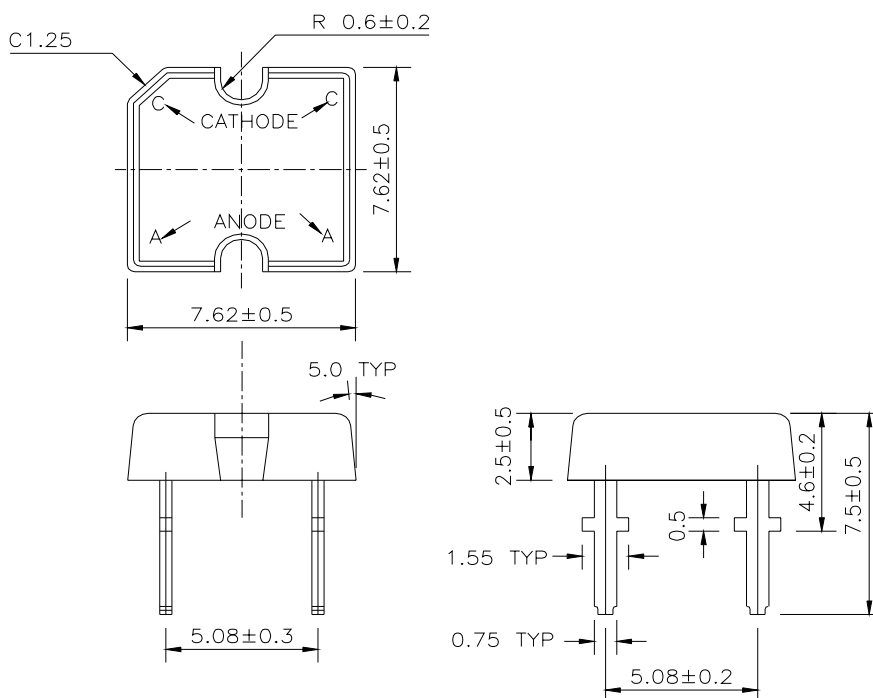


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Package Dimensions



Notes:

1. An epoxy meniscus may extend about 1.5mm(0.059") down the leads
2. Tolerances unless dimensions ± 0.25 mm

Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Rating	Units
Continuous Forward Current	I_F	70	mA
Peak Forward Current(Duty 1/10 @ 1KHZ)	I_{FP}	160	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	-40 ~ +100	
Storage Temperature	T_{stg}	-40 ~ +100	
Soldering Temperature(T=5 sec)	T_{sol}	260 ± 5	
LED Junction Temperature	T_j	115	
Power Dissipation	P_d	220	mW
Electrostatic Discharge	ESD	2K	V



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Electro-Optical Characteristics (Ta=25)

Parameter	Symbol	Min.	Typ.	Max.	Condition	Unit
Total Flux	v	3600	4000	7150	IF=70mA	mlm
Viewing Angle	2 1/2	----	130	----	IF=70mA	deg
Peak Wavelength	p	----	632	----	IF=70mA	nm
Dominant Wavelength	d	622	624	630	IF=70mA	nm
Spectrum Radiation Bandwidth		----	20	----	IF=70mA	nm
Forward Voltage	VF	2.1	2.6	3.1	IF=70mA	V
Reverse Current	IR	----	----	10	VR=5V	μA

Rank

32-01/R5C-AQSC

(1)

(2)

(3)

(1) VF(V)			(2) d(nm)			(3) v(mlm)		
Bin	Min	Max	Bin	Min	Max	Bin	Min	Max
3	2.1	2.3	2	622	626	Q	3600	4500
4	2.3	2.5	3	626	630	R	4500	5650
5	2.5	2.7				S	5650	7150
6	2.7	2.9						
7	2.9	3.1						

*Measurement Uncertainty of Forward Voltage : ±0.1V

*Measurement Uncertainty of Luminous Intensity: ±10%

*Measurement Uncertainty of Dominant Wavelength ±1.0nm



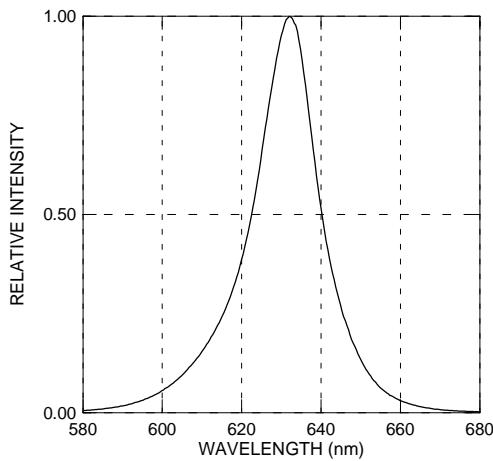
Technical Data Sheet

POWER LED

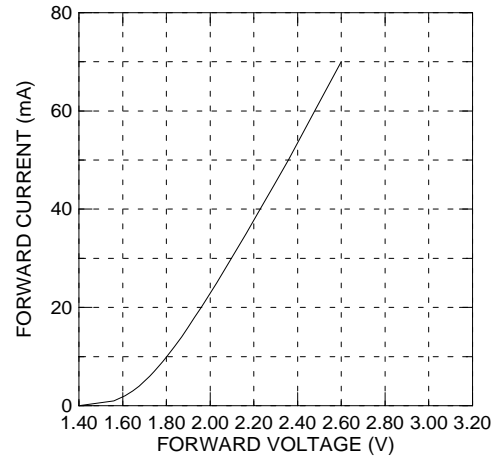
32-01/R5C-AQSC

Typical Electro-Optical Characteristics Curves

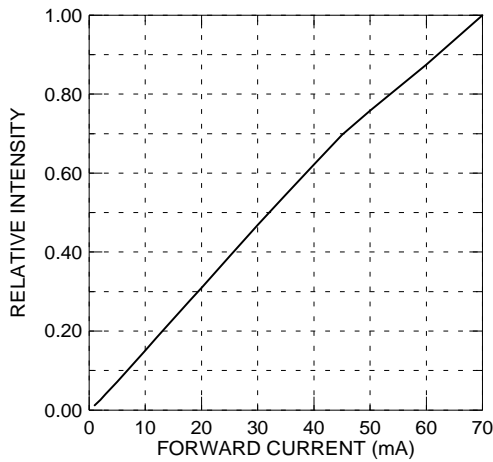
Relative Intensity vs. Wavelength



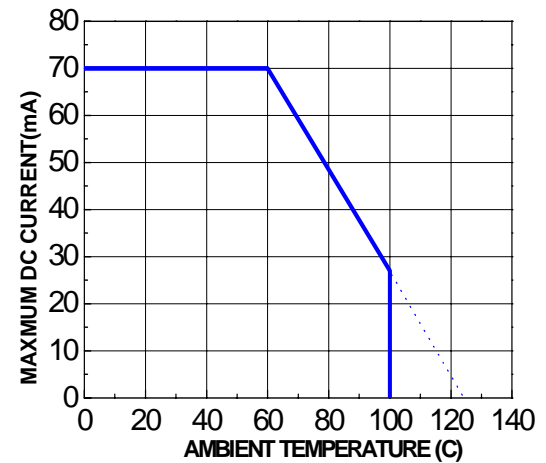
Forward Current vs. Forward Voltage



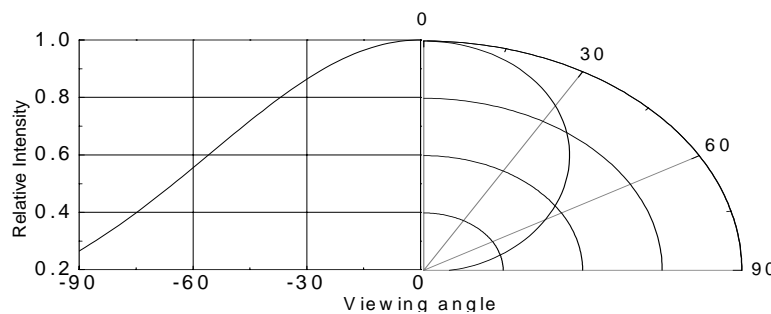
Relative Intensity vs. Forward Current



Forward Current vs. Ambient Temp.



Relative Intensity vs. Angle Displacement





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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

	PART NO: 32-01/R5C-AQSC	QTY: 60
	LOT NO:	CAT:

(2) Box Label Form

<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">EVERLIGHT</div>	
CPN:	
P/N:	
	RoHS
32-01/R5C-AQSC	
QTY :	CAT:
	HUE:
LOT NO :	REF:
MADE IN TAIWAN	

PART NO: Everlight'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



Technical Data Sheet

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32-01/R5C-AQSC

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 than 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 Max. (30W Max.)	Preheat temp.	100 Max. (60 sec Max.)
Soldering time	3 sec Max.	Bath temp.	265 Max.
Distance	3mm Min.(From solder joint to case)	Bath time.	5 sec Max.
		Distance	3mm Min.

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