

39-06/A5C-AQSC

Features

- . High Flux Output.
- . Designed for High Current Operation.
- . Low Profile.
- . Packaged in Tubes for Use with Automatic Insertion Equipment.
- .The product itself will remain within RoHS compliant version.
- . Viewing angle 180 degree



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

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PART NO.	Material	Emitted Color	Lens Color	
39-06/A5C-AQSC	AlGaInP	Reddish Orange	Water Clear	

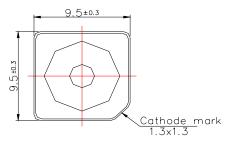
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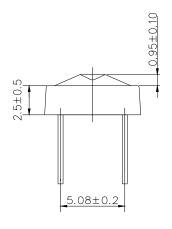
Device number: DLE-309-005 Established date: 05-18-2007 Established by: Jim Lin

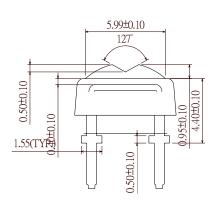


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Package Dimensions







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°C)

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	$^{\circ}\!\mathbb{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^{\circ}$ C
Soldering Temperature(T=5 sec)	T_{sol}	260 ± 5	$^{\circ}\mathbb{C}$
LED Junction Temperature	$T_{\rm j}$	115	$^{\circ}$ C
Power Dissipation	P_d	220	mW
Electrostatic Discharge	ESD	2K	V

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Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Condition	Unit
Total Flux	Φν	3600	4200	7150	I _F =70mA	mlm
Viewing Angle	2 \theta 1/2		180		I _F =70mA	deg
Peak Wavelength	λр		621		I _F =70mA	nm
Dominant Wavelength	λd	611	616	620	I _F =70mA	nm
Spectrum Radiation Bandwidth	Δλ		18		I _F =70mA	nm
Forward Voltage	VF	2.1	2.6	3.1	I _F =70mA	V
Reverse Current	IR			10	V _R =5V	μΑ

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 $(1) \qquad (2) \qquad (3)$

	(1) VF(V))	(2) λ d(nm)		$(3)\Phi v(mlm)$			
Bin	Min	Max	Bin	Min	Max	Bin	Min	Max
3	2.1	2.3	6	611	614	Q	2850	3600
4	2.3	2.5	7	614	617	R	3600	4500
5	2.5	2.7	8	617	620	S	4500	5650
6	2.7	2.9						
7	2.9	3.1						

*Measurement Uncertainty of Forward Voltage : ± 0.1 V

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

*Measurement Uncertainty of Dominant Wavelength ±1.0nm

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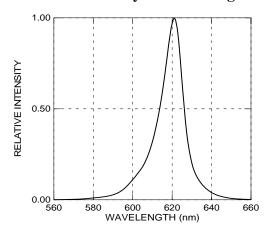
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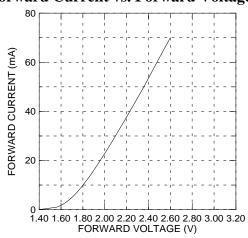
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Typical Electro-Optical Characteristics Curves

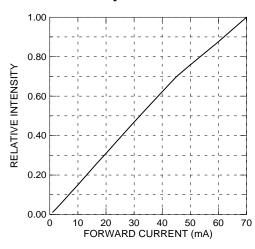
Relative Intensity vs. Wavelength



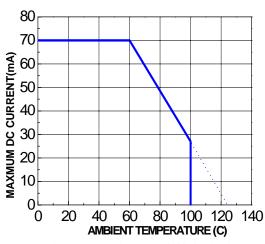
Forward Current vs. Forward Voltage



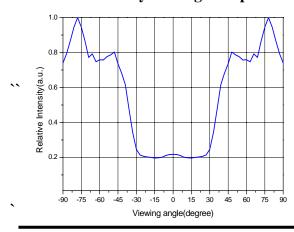
Relative Intensity vs. Forward Current



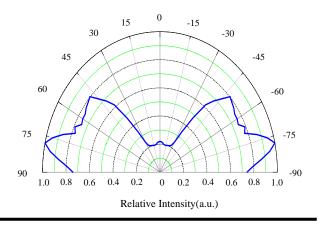
Forward Current vs. Ambient Temp.



Relative Intensity vs. Angle Displacement



Relative Intensity vs. Off Axis Angle



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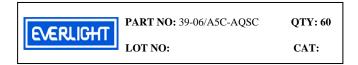
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Packing Quantity Specification

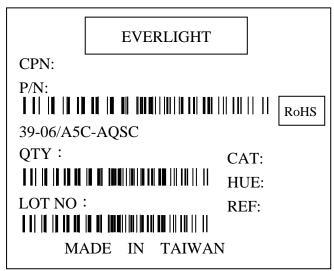
- (1) 60 pcs/1 tube, 30 tubes/1 small inside box, 12 small inside boxes/1 outside box.
- (2) 60 pcs/1 tube, 105 tubes/1 big inside box, 8 big inside boxes/1 outside box.

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

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

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