

DMS VCSEL Illuminator

AT01 Series



Features

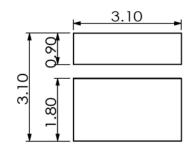
- Automotive grade glass diffuser
- Wide field of view up to 160°
- Standard package 3535

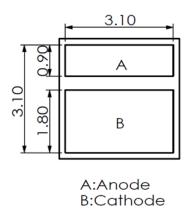
Applications

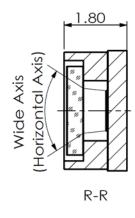
- · Driver Monitoring System
- Face Recognition
- Lighting
- 3D Sensing

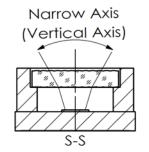
Product Dimensions (mm)

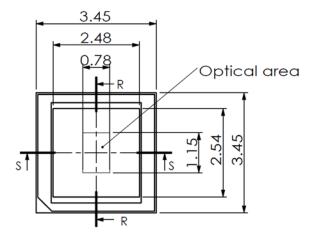
Recommended Soldering Pad:











Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.



Product Specifications (Prototype)

Product Code	(Typical Customization)
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Part No. 1 FL-AT01-3-940-HxV

Test Condition 300µs, 300Hz, 9% DC, 25°C

Optical Data	Unit	Value
Centroid Wavelength λ	nm	940±5
Output Power ²	W	> 3
Output Power Decay	% /°C	-0.85
FOV @ FWHM (Typical, Horizontal x Vertical)	0	120x20
Spectral Width FWHM	nm	< 3
Wavelength Temp. Coefficient	nm/°C	0.08
Electrical Data		
Threshold Current I _{th}	Α	<0.5
Operating Current I _{op}	А	3.5
Forward Voltage V_{op}	V	<2.5
Slope efficiency	W/A	>0.8
Power conversion efficiency	%	>32
Other Data		
Storage Temperature	°C	-40~105

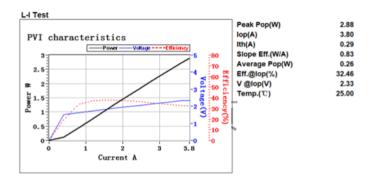
¹Part No. = Brand Code - Series - Power - Centroid Wavelength - FOV (Horizontal x Vertical).

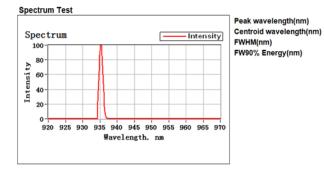


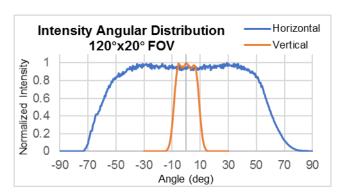
 $^{^{2}}$ A non-condensing environment is required for storage and operation below ambient dew point.

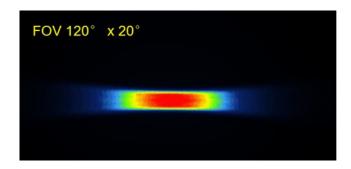


Product Test Results (Prototype)









935.34

1.94