Apr. 2024 R85-52GSE

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R85-52GSE

- 1. Color
- 2. Material
- 3. Electrode
- 4. Electrode pattern
- 5. Chip size
- 6. Electro-Optical characteristics (Ta=25℃)
- 7. Absolute maximum rating
- 8. Characteristic curves
- 9. Features
 - High power
 - Good temperature characteristics

Infrared AlGaAs / Ge

N side (cathode): Au / P side (anode): Au

(Figure 1)

500μm×500μm×190μm (*Figure 1*)

(Table 1)

(Table 2, Figure 2)

(Figure $3\sim9$)

Figure 1. Electrode pattern and Chip size (Unit: μm)

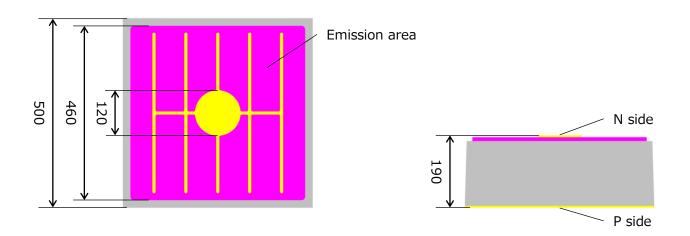


Table 1. Electro-Optical characteristics ($Ta=25^{\circ}$ C)

Parameters	Symbol	Condition	Min.	Тур.	Max.	Unit
Power*	Ро	IF=20mA	6.3	7.5	9.4	mW
Forward Voltage	VF	IF=20mA	1.15	1.40	1.65	V
Peak Wavelength	λр	IF=20mA	820	850	880	nm
Reverse Current	IR	VR=5V	_	_	10	μΑ

^{*} Power : Measurement at RESONAC PHOTONICS.

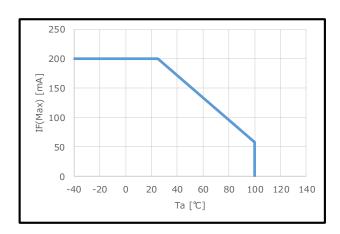


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Table 2. Absolute maximum rating

Item	Symbol	Rating	Unit	
Forward Current	IF	200	mA	
Reverse Voltage	VR	5	V	
Junction Temperature	Tj	130	$^{\circ}$	

Figure 2. Ta-Absolute maximum rated current



RESONAC PHOTONICS' standard condition: LED chip mounted on TO-46 gold header, without resin coating.

- * The absolute Maximum Rating means that there is a possibility to break down if exceeded momentarily, and does not guarantee to use on this condition considering reliability.
- * You should establish the absolute Maximum Ratings of device after packaging under your responsibility, as those largely depend on the design of package and packaging condition.

The information contained herein is believed to be reliable.

However, no representations, guaranties or warranties of any kind are made as to accuracy and suitability of the Product for particular applications or the results of its use. RESONAC PHOTONICS reserves the right to introduce changes without notice.

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Characteristic curves (TO-18 stem without resin)

Figure 3. IF-Po (Ta=25℃)

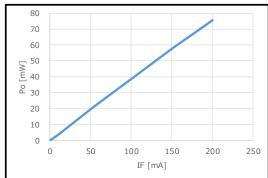


Figure 4. VF-IF (Ta=25°C)

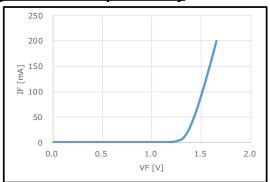


Figure 5. Emission spectrum (Ta=25℃)

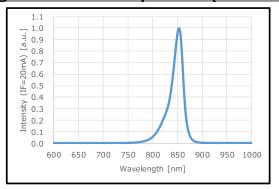


Figure 6. Emission distribution (Ta=25℃)

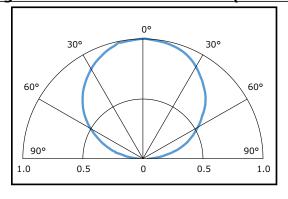


Figure 7. Ta-Relative Po

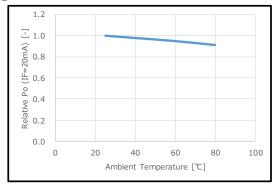


Figure 8. Ta-VF

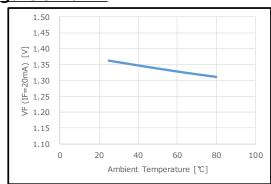


Figure 9. Ta-λp

