Marketing Department Email:Sdk_Elled@showadenko.com 2021.July Reflection type LED Single junction series **R66-35GSA**

<u>R66-35GSA</u>

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

Red AlGaInP / Ge N side (cathode) : Au / P side (anode) : Au (Figure 1) 330µm×330µm×190µm (Figure 1) (Table 1) (Table 2, Figure 2)

(Figure 3~9) (Figure 10~11)

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

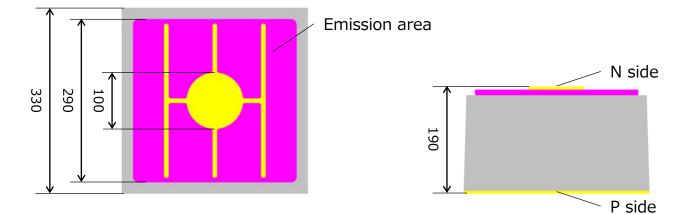


Table 1. Electro-Optical characteristics (Ta=25°C)

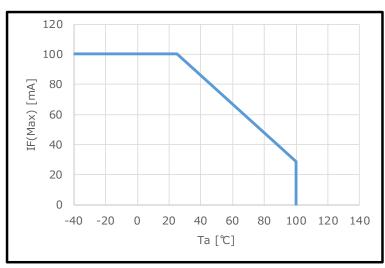
Parameters	Symbol	Condition	Min.	Тур.	Max.	Unit
Power*	Ро	IF=20mA	10.0	13.0	16.2	mW
Forward Voltage	VF	IF=20mA	1.65	1.90	2.00	V
Peak Wavelength	λр	IF=20mA	650	660	670	nm
Reverse Current	IR	VR=5V	-	-	10	μA
* Power : Measurement at SHOWA DENKO PHOTONICS.						

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Table 2. Absolute maximum rating

Item	Symbol	Rating	Unit
Forward Current	IF	100	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	130	°C

Figure 2. Ta-Absolute maximum rated current



SHOWA DENKO PHOTONICS' standard condition : LED chip mounted on TO-18 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.

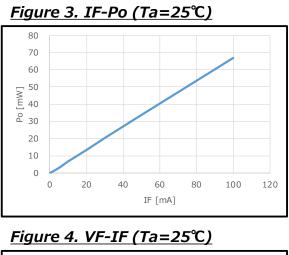
* You should establish the absolute Maximum Ratings of device after packaging under your responsibility, as those largely depend on the design of package and packaging condition.

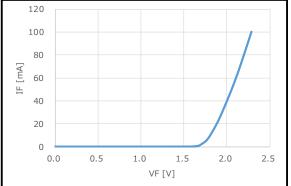
The information contained herein is believed to be reliable. However, no representations, guaranties or warranties of any kind are made as to accuracy and suitability of the Product for particular applications or the results of its use. SHOWA DENKO PHOTONICS reserves the right to introduce changes without notice.

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Characteristic curves (TO-18 stem without resin)





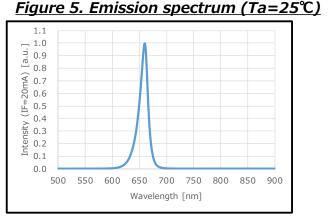


Figure 6. Emission distribution (Ta=25℃)

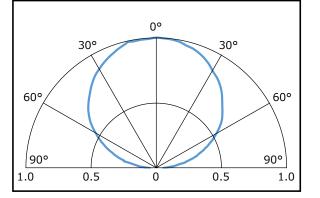
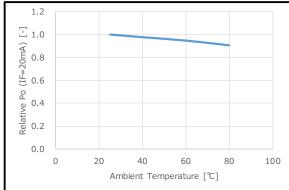
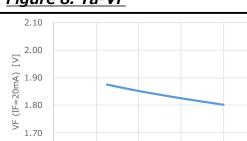
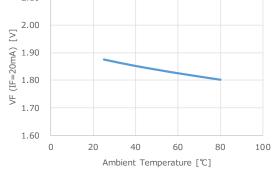


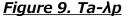
Figure 7. Ta-Relative Po

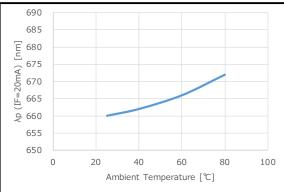












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The data on this page are examples measured at SHOWA DENKO PHOTONICS, and they are not guaranteed.

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Reliability (TO-18 stem without resin)

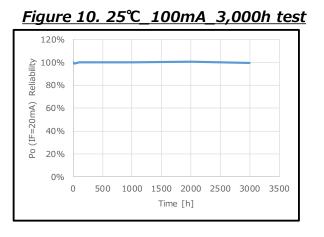
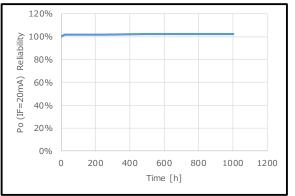


Figure 11. 125℃_100mA_1,000h test



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