

18 N. Tuanjie Road, Xishan Economic Development Zone, Wuxi, Jiangsu
P.C.: 214192 Tel: 0510-88701888
Fax: 0510-88700742 www.jsxgl.com

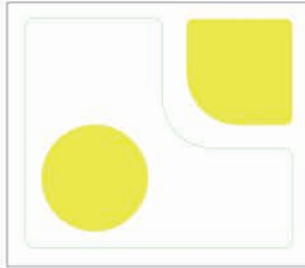
XGL-G09CW##L##V#-###

Features

- Long lifetime and high reliability,
- High performance
- 100% tested and sorted,
- Special specifications are optional

Mechanical Specification

Description	Dimension
Structure	InGaN/GaN MQW
Chip Size (μm^2)	175×200 (± 25)
Chip Thickness (μm)	85 \pm 10
Electrode Size (μm)	70 \pm 5
Electrode Material	Au alloy



G09C Chip Top View

Optical and Electrical Characteristics (Ta=25°C)

Item	Symbol	Condition		Min	Max	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	V1	2.7	2.9	V
			V2	2.9	3.1	
			V3	3.1	3.3	
			V4	3.3	3.5	
Reverse Current	I_R	$V_R = -8\text{V}$		---	0.5	μA
Dominant Wavelength	λ_D	$I_F=20\text{mA}$	W33	510	512	nm
			
			W38	520	522	
			W39	522	524	
			W43	530	532	

Luminous Intensity (Ta=25°C)

		L24	L25	L26	L27	L28	L29	L30	L31	L32
I_V (mcd)	Min	360	400	440	490	540	600	660	730	810
	Max	400	440	490	540	600	660	730	810	900

Absolute Maximum Ratings (Ta=25°C)

Item	Symbol	Condition	Rating	Unit
DC Forward Current	I_F	Ta=25°C	≤ 30	mA
Peak Forward Current	I_{FP}	Ta=25°C	≤ 50	mA
Reverse Voltage	V_R	Ta=25°C	≤ 10	V
Storage Temperature Range	T_{stg}	chip	-40 ~ +85	°C
		chip-on-tape/storage	0 ~ +40	°C
		chip-on-tape/transportation	-20 ~ +65	°C
ESD (HBM)	V_{esd}	Ta=25°C	2000	V

Notes

- All parameters are measured using XGL's tester on bare chips.
 - Assembly processing temperature must not exceed 280°C for 10 seconds.
 - Humidity and temperature range: 50%~70% & 18°C~25°C.
 - GaN LEDs are ESD sensitive. Please observe appropriate precautions during handling and processing.
- For further information please refer to MIL-STD-1686A.