

● Under development

SHARP

GH04V01A2GC Multi-mode UV Laser Diode



[↶ To the Wavelength](#)

[↶ To the Package](#)

$\phi 5.6\text{mm}$ TO-CAN Package

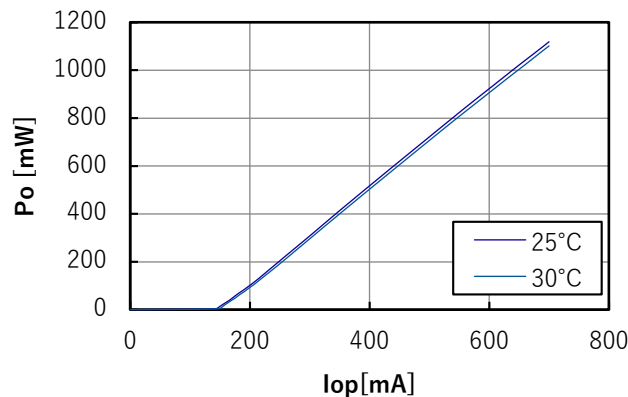
March 2022

($T_c=25^\circ\text{C}$, CW)

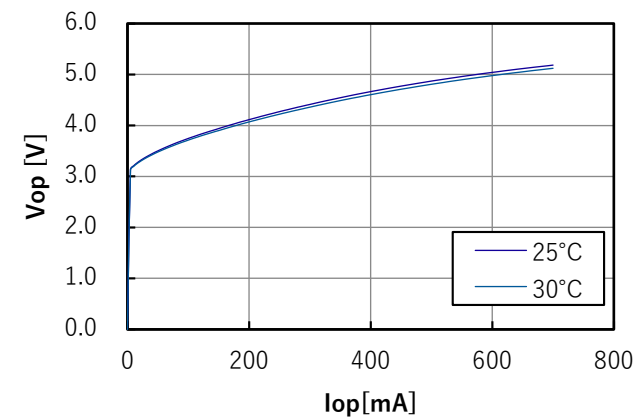
| Item | Conditions | Characteristic value (TYP.) |
|---------------------------|----------------------|---------------------------------------|
| Wavelength (Peak) | $P_o=1000\text{mW}$ | 405nm |
| Output(mW) [Max] | — | 1000mW [1100mW] |
| Threshold current | — | 150mA |
| Operating current | $P_o=1000\text{mW}$ | 650mA |
| Operating voltage | $P_o=1000\text{mW}$ | 5V |
| Far Field ($1/e^2$ (°)) | $P_o=1000\text{mW}$ | $\theta_{//} 16, \theta_{\perp} 40$ |
| Terminal connections | No.9 | $\phi 5.6$ |

■ CW I-L, I-V Temperature

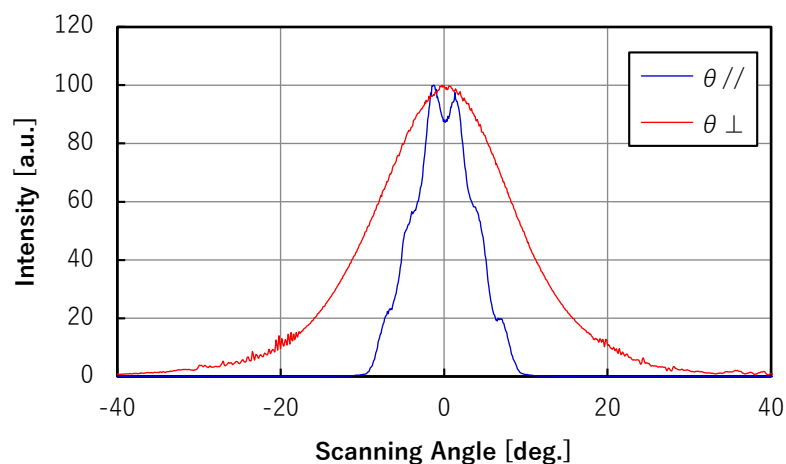
I-L



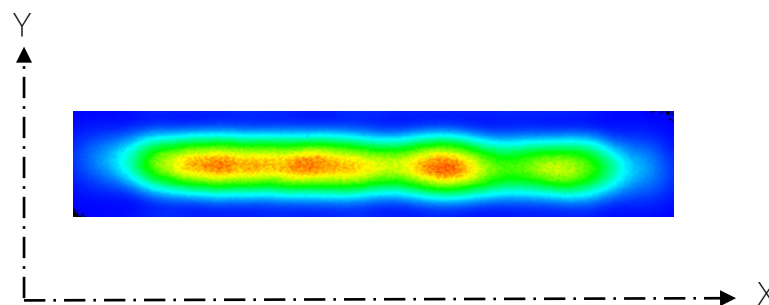
I-V



■ Far Field Pattern



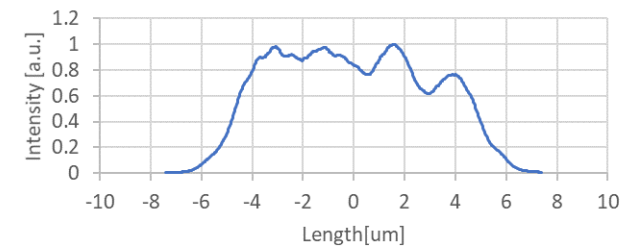
■ Near Field Pattern



Emitter size

| | FWHM(μm) | $1/e$ (μm) | $1/e^2$ (μm) |
|---|-----------------------|-------------------------|---------------------------|
| X | 9.5 | 9.9 | 11.5 |
| Y | 0.9 | 1.1 | 1.5 |

X profile



Y profile

