

# Red Laser Diode

Part No: LD-675-6A-20-G-5



## Features

- ※ Wavelength:  $\lambda = 675\text{nm}$  (Type)
- ※ Output optical power: 600mW (CW)
- ※ Package: C-mount-b
- ※ Aperture Size: 150\*1um

## Applications

- ※ Industrial Use

### Absolute Maximum Rating at $T_c=25^\circ\text{C}$

| Items                       | Symbols    | Values         | Unit             |
|-----------------------------|------------|----------------|------------------|
| Optical Output Power        | $P_o$ (CW) | 600            | mW               |
| Laser Diode Reverse Voltage | $V_r$      | 2.3            | V                |
| Operating Temperature       | $T_{opr}$  | $-20 \sim +20$ | $^\circ\text{C}$ |
| Storage Temperature         | $T_{stg}$  | $-20 \sim +85$ | $^\circ\text{C}$ |
| Aperture Size               | --         | 150*1          | um               |

### Electrical and Optical Characteristics at $T_c=25^\circ\text{C}$

| Items                | Symbols   | Min  | Type | Max. | Unit     | Condition          |
|----------------------|-----------|------|------|------|----------|--------------------|
| Optical Output Power | $P_o$     | -    | 600  | -    | mW       | CW                 |
| Threshold Current    | $I_{th}$  | 600  | 800  | 1000 | mA       | CW                 |
| Operating Current    | $I_{op}$  | 1200 | 1400 | 1600 | A        | $P_o=600\text{mW}$ |
| Slope Efficiency     | $\eta$    | -    | 1    | 1.2  | W/A      | $P_o=600\text{mW}$ |
| Operating Voltage    | $V_{op}$  | 2.1  | 2.2  | 2.5  | V        | $P_o=600\text{mW}$ |
| Lasing Wavelength    | $\lambda$ | 670  | 675  | 680  | nm       | $P_o=600\text{mW}$ |
| Beam Divergence      | //        | 6    | 8    | 10   | $^\circ$ | $P_o=600\text{mW}$ |
|                      | $\perp$   | 30   | 34   | 38   | $^\circ$ | $P_o=600\text{mW}$ |

1) Measurement condition: CW

2) Full angle at half maximum.

3) All the above values are measured by OPELUS method.

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## Package and Electrical connection

