

## D6-4-980-50

### Key features

Invisible Light  $\lambda = 980\text{nm}$   
Output Power = 50mW  
Package Type = 5.6mm $\Phi$

### Applications

General Purpose Infrared Laser Light Source

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

| Item                    | Symbols          | Min. | Typ. | Max. | Unit  | Condition |
|-------------------------|------------------|------|------|------|-------|-----------|
| Optical Output Power    | Po               | -    | 50   | -    | mW    | -         |
| Threshold Current       | Ith              | -    | 12   | 20   | mA    | Po=50mW   |
| Operating Current       | Iop              | -    | 75   | 100  | mA    | Po=50mW   |
| Differential Efficiency | SE               | 0.5  | 0.8  | -    | mW/mA | Po=50mW   |
| Operating Voltage       | Vop              | 1    | 1.5  | 2.1  | V     | Po=50mW   |
| Peak Wavelength         | $\lambda_p$      | 965  | 980  | 995  | nm    | Po=50mW   |
| Beam Divergence         | $\theta_{//}$    | 8    | 12   | 14   | deg   | Po=50mW   |
|                         | $\theta_{\perp}$ | 30   | 35   | 40   | deg   | Po=50mW   |

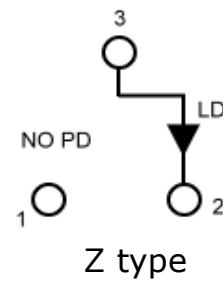
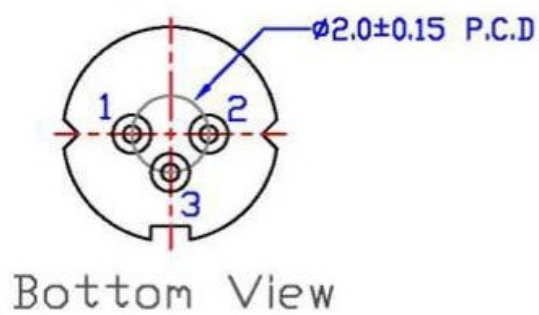
# EGISMOS IR Laser Diode

## Absolute Maximum Rating at Tc=25°C

| Items                       | Symbols | Values  | Unit |
|-----------------------------|---------|---------|------|
| Optical Output Power        | Po(CW)  | 50      | mW   |
| Laser Diode Reverse Voltage | V       | 2       | V    |
| Operating Temperature       | To      | -10~+40 | °C   |
| Storage Temperature         | Ts      | -15~+85 | °C   |

## Electrical Connection

## Package Type



## Package Drawing

D6498050-a

**EGISMOS**

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