

808nm 5000mW 30°C Laser Diode in CoS (Chip-on-Submount) Package

Part No. LD808E5WK13

FEATURES

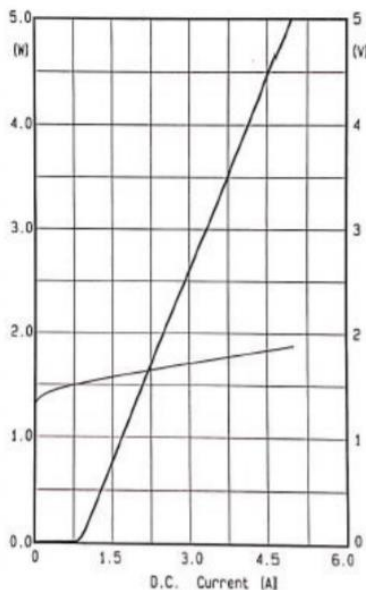
- 808nm 5W Fabry-Perot cavity semiconductor laser
- High output power
- Package: CoS (Chip-on-Submount)

SPECIFICATIONS (T_c = 20°C)

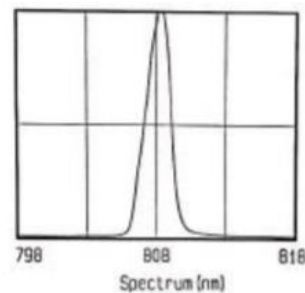
| Item | Parameter | Typ. | Unit |
|----------------------|-------------------------|------------------------|-------|
| Optical Parameter | Lasing wavelength | 808±5 | nm |
| | Output power | 5 | W |
| | Spectral width | ≤3 | nm |
| | Emitting area width | 200 | um |
| | Temperature coefficient | 0.30 | nm/°C |
| | Fast axis divergence | <40 | deg |
| | Slow axis divergence | <10 | deg |
| Electrical Parameter | Slope efficiency | ≥1.0 | W/A |
| | Threshold current | ≤1.1 | A |
| | Operating current | ≤5.5 | A |
| | Operating voltage | ≤2.0 | V |
| Others | Package | CoS (Chip-on-Submount) | - |
| | Operating temperature | 15 to 30 | °C |
| | Storage temperature | -40 to +60 | °C |
| | Welding temperature | ≤260 | °C |

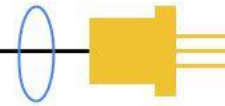
TYPICAL CHARACTERISTICS

P-I-V Curve

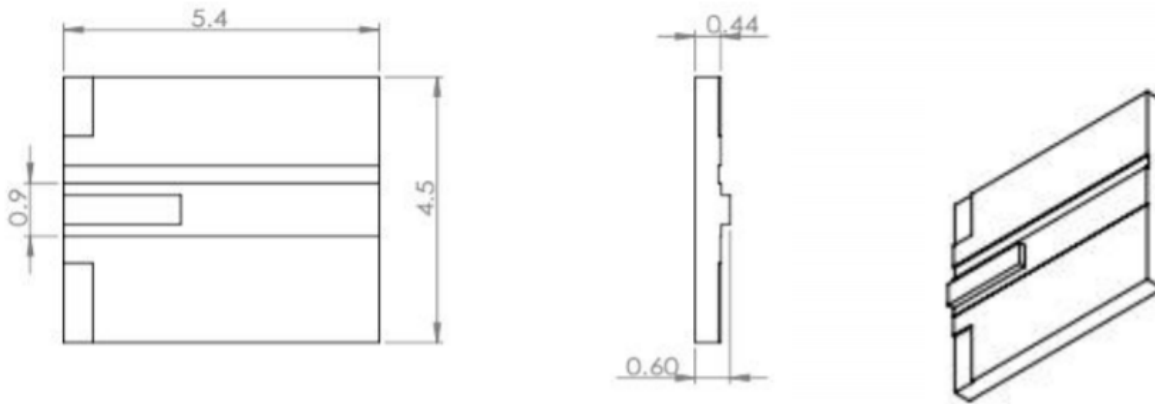


Spectral Curve





MECHANICAL OUTLINE (unit: mm)



ADDITIONAL NOTES

- Data in the sheet are based on C-mount package heat sink testing.
- Do not operate the device above maximum ratings. Doing so may cause unexpected and permanent damage to the device.
- Take precautions to avoid electrostatic discharge and/or momentary power spikes. A change in the characteristics of the laser or premature failure may result.
- Proper heat sinking of the device assures stability and lifetime. Always ensure that maximum operating temperatures are not exceeded.
- Observing visible or invisible laser beams with human eye directly, or indirectly, can cause permanent damage. Use a camera to observe the laser.
- No laser device should be used in any application or situation where life or property is at risk in the event of device failure.
- Specifications are subject to change without notice. Ensure that you have the latest specification by contacting us prior to purchase or use of the product.