

## Special Notes on Photodigm C-Mount Packaged Laser Diodes

The user must observe special precautions when handling and operating Photodigm Laser Diodes mounted on C-Mount packages.

- 1) The laser diode and bond wires are exposed on Photodigm C-Mount Devices. Special care must be exercised to insure that **nothing is allowed to contact the laser diode, facet, or bond wires.**
- 2) **A dry environment** should be provided when storing or operating the device at temperatures below the ambient dew point. **Failure to do so will cause condensation and will destroy it.**
- 3) As with most laser diodes, Photodigm Laser Diodes are typically very sensitive to electrostatic discharge (ESD), and thus should **only be handled and mounted when the user is wearing ESD protection.** If the anode is to be soldered into the drive circuit, **the soldering iron must also be ESD protected.**
- 4) Furthermore, it is highly recommended that the **Photodigm Laser Diode always be shorted when being handled, mounted, or connected.** Additionally, it is recommended that the laser diode driver have a relay-protected output where **a short circuit is maintained across the laser diode anode and cathode – especially when the laser diode is being connected or disconnected from the circuit.**
- 5) Finally, it is recommended to **never reverse-bias a laser diode due to potential damage to the light-emitting active region.** Unless otherwise noted, Photodigm Laser Diodes on C-Mount packages are mounted p-side up meaning that **the laser diode anode corresponds to the C-Mount package lead.**
- 6) **The correct polarity for operating Photodigm Laser Diodes is positive (+) to the diode laser anode (lead), and negative (-) to the cathode (body) of the C-Mount package.**

Please contact Photodigm Inc for further questions.

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