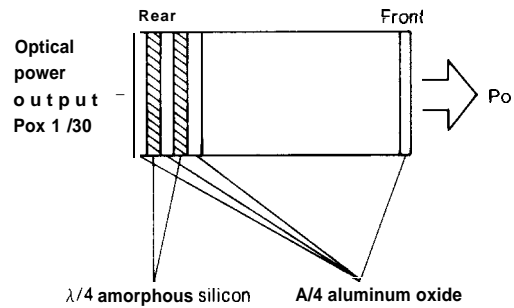


Internal Structure of Laser Diodes

Multicoating of Chip Facet

To achieve high optical power output in the LT024 series, LTO1 5 series, LTO1 7 series and LT090 series, the rear reflecting surface is coated with a highly reflective multilayer film composed of amorphous silicon and aluminum oxide, and the front surface is coated with an antireflecting film of aluminum oxide. This chip structure efficiently directs the laser beam forward out of the chip.

Fig. 17-1 High Power Chip Structure

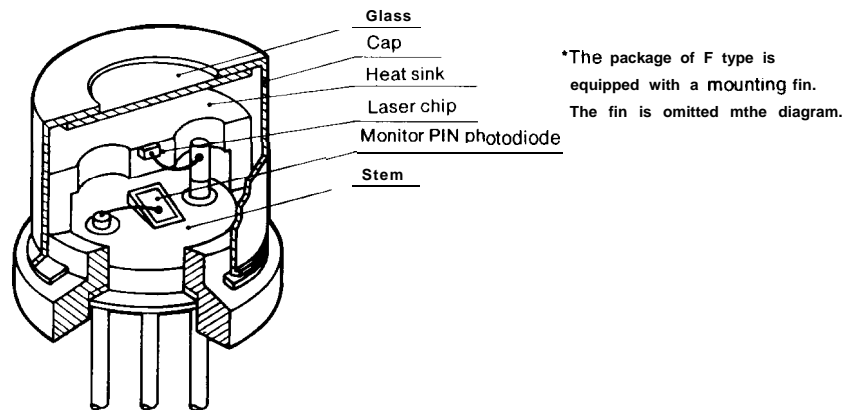


Internal Structure of the Laser Diode

All Sharp laser diodes are equipped with a monitor PIN photodiode. Their internal structure is shown in Fig. 17-2 Fig. 17-3.

C(Standard Cap), D(Low Cap), and F(Low Cap, with Fin) Types

Fig. 17-2 Internal Structure



S(Compact) Type

Fig. 17-3 Internal Structure

