

650 nm LASER DIODE

Features

- Visible wavelength: 650 nm (typ.)
- Optical power: 5 mW (CW)
- TO-18 package with flat window (\varnothing 5.6 mm)
- Low operating current: $I_{op} = 25$ mA (typ.)
- Low operating voltage: $V_{op} = 2.8$ V (max)

Recommended operating optical power output

- Less than 5 m W

Applications

- Laser pointers
- Laser modules
- Bar code readers
- Scanner

Structure

- Index-guided structure
- AlGaInP quantum well structure
- Integrated Si photodiode for optical power monitor



Description

The MCE-6E8F-Z01 is a red laser diode typically powered at 3 to 5 mW and designed for laser pointer.

The device contains a PIN photo diode to meet the designs of the automatic-power-control circuit. The small TO-18 package and lower consumption enable customers to easily incorporate our laser diodes into their products.

Handling and Safety Precautions

Anti-static protection, such as ionized air blowers or grounded wrist straps with a 1 mega series resistor, should be used at all times when handling laser diodes. In addition, soldering irons should be well grounded.

Overheating caused by soldering of the leads of a laser diode must be prevented. Recommend soldering iron temperature and maximum exposure time are below 260 °C and 10 seconds.