

LT056PS/MS

Red Laser Diode

Compact Laser Diode for DVD-ROM(650nm-5mW)

■ General Description

Sharp's red laser diode LT056PS/LT056MS have been developed for DVD-ROM that will bring a great hope to visual media of the next generation.

■ Model Name

- LT056PS ---Single power supply
- LT056MS---Dual power supply

■ Features

- (1) Maximum optical output: 5mW
- (2) Wavelength: 650nm
- (3) Compact ø5.6mm package
- (4) Stable transverse mode
- (5) High temperature operation at 70°C
- (6) Realizes short wave laser diode by introducing a tensile strain into the multi-quantum well active layer.
- (7) Stable optical characteristics by developing an index guide structure of MBE method 2 times growth
- (8) Pair use with Sharp's OPIC* light detector IS1630 is recommended.

*OPIC: OPIC (Optical IC) is a trademark of the SHARP Corporation.

An OPIC consists of a light-detecting element and signalprocessing circuit integrated onto a single chip.

Applications

- DVD-ROM drives
- DVD players
- Bar code readers
- Pointers etc.

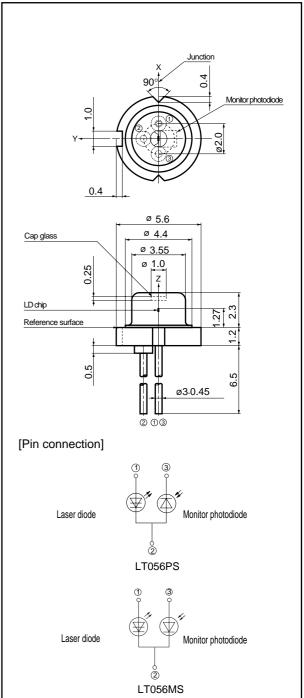
Specifications

Electro-optical characteristics

			(1c=25 C,Po=3mV)
Parameter		Symbol	Rating(TYP.)
Optical power output		Po	MAX. 5 mW
Wavelength		lр	650 nm
Threshold current		Ith	60 mA
Operating current		lop	70 mA
Operating voltage		Vop	2.5 V
Radiation angle	Parallel	θH	8°
	Perpendicular	θ⊥	33°
Operating temperature		Topr	-10 to 70°C

Outline Dimensions

(Unit:mm)



(Notice) • In the absence of device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

• Specifications are subject to change without notice for improvement.

(Internet) • Data for Sharp's optoelectronic/power devices is provided for internet. (Address http://www.sharp.co.jp/ecg/)

