

## ABSOLUTE MAXIMUM RATINGS (Note 1)

Symbol	Parameter	Conditions	Ratings	Unit
Po	Light output power	CW	<b>0.5</b>	W
		Pulse Duty≤33%, frequency≥50Hz	<b>1.0</b>	W
VRL	Reverse voltage	-	<b>2</b>	V
Tc	Case temperature	-	<b>-5 ~ +40</b>	°C
Tstg	Storage temperature	-	<b>-40 ~ +100</b>	°C

Note1: The maximum rating means the limitation over which the laser should not be operated even instant time. This does not mean the guarantee of its lifetime. As for the reliability, please refer to the reliability report issued by Quality Assurance Section, HF & Optical Semiconductor Division, Mitsubishi Electric Corporation.

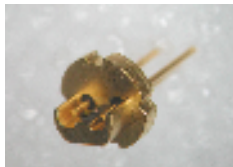
## ELECTRICAL/OPTICAL CHARACTERISTICS (Tc=25°C)

Symbol	Parameter	Test conditions	Min.	Typ.	Max	Unit
I <sub>th</sub>	Threshold current	CW	<b>90</b>	<b>170</b>	<b>210</b>	mA
I <sub>op</sub>	Operating current	CW, Po=500mW	<b>500</b>	<b>660</b>	<b>800</b>	mA
V <sub>op</sub>	Operating voltage	CW, Po=500mW	<b>1.9</b>	<b>2.2</b>	<b>2.6</b>	V
η	Slope efficiency	CW, Po=500mW	<b>0.8</b>	<b>1.0</b>	<b>1.4</b>	mW/mA
λ <sub>p</sub>	Peak wavelength	CW, Po=500mW	<b>632</b>	<b>638</b>	<b>644</b>	nm
θ <sub>//</sub>	Beam divergence angle (parallel)	CW, Po=500mW	<b>1</b>	<b>7.5</b>	<b>15</b>	°
θ <sub>⊥</sub>	Beam divergence angle (perpendicular)	CW, Po=500mW	<b>25</b>	<b>35</b>	<b>45</b>	°

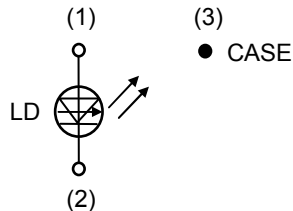
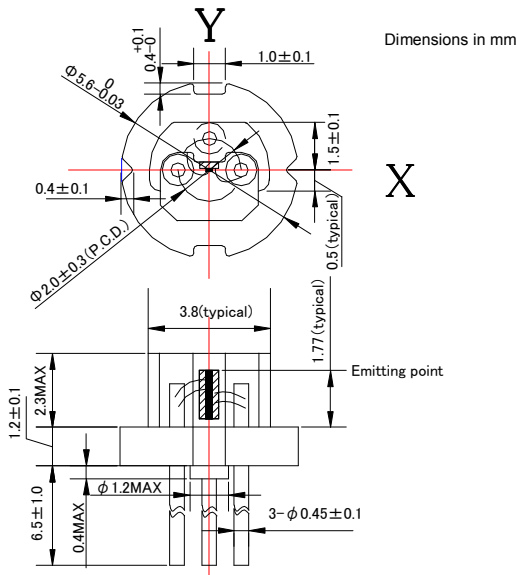
These specifications are based on MITSUBISHI ELECTRIC Corp. standard.

# OUTLINE DRAWINGS

**ML501P73**



$\phi 5.6\text{mm}$



**ML501P73**

## LD PACKING SPECIFICATION

<ML501P73-02 packing>

Laser diode is inserted in an electrically conductive tray made of polystyrene.

Each laser diode-tray includes 200pcs LDs, in the maximum.