

MITSUBISHI LASER DIODES
ML6XX24 SERIES
 FOR OPTICAL INFORMATION SYSTEMS

**TYPE
NAME**

ML601J24

DESCRIPTION

ML6XX24 is a high power AlGaAs semiconductor laser which provides a stable, single transverse mode oscillation with emission wavelength of 785nm and standard pulse output power of 95 mW.

ML6XX24 is produced by a MOCVD crystal growth method which is excellent in mass production and characteristics uniformity. This is a high-performance, highly reliable, and low-operation-current semiconductor laser.

FEATURES

- High pulse output (95mW)
- Small astigmatic distance
- Low operation current

APPLICATION

- 8X CD-R/RW Drive

ABSOLUTE MAXIMUM RATINGS (Note 1)

Based on Mitsubishi's measurement standards

Symbol	Parameter	Conditions	Ratings	Unit
Po	Light output power	CW	70	mW
		Pulse(Note 2)	100	
VRL	Reverse voltage	-	2	V
Tc	Case temperature	-	-10 ~ +60	°C
Tstg	Storage temperature	-	-40 ~ +100	°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 is sued by Quality Assurance Section, HF & Optical Semiconductor Division, Mitsubishi Electric Corporation.

Note2: TARGET SPEC /Condition Duty Cycle: less than 50%, pulse width: less than 0.1μs

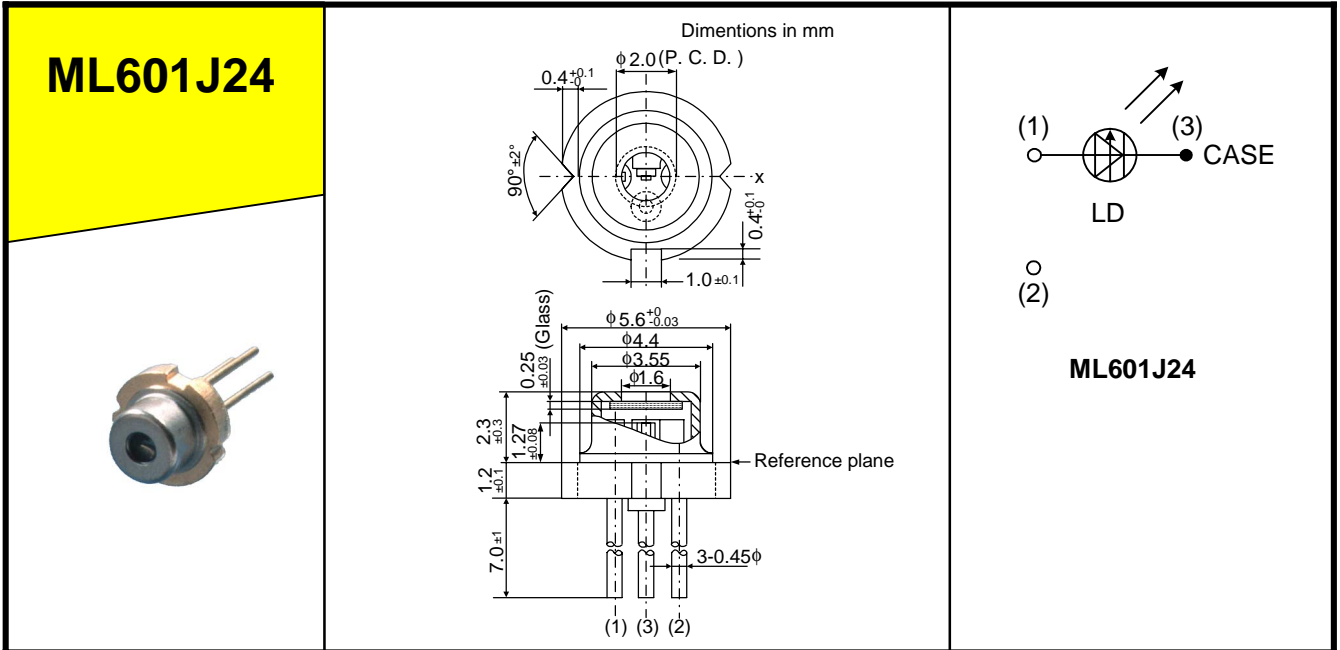
ELECTRICAL/OPTICAL CHARACTERISTICS (Tc=25°C) Based on Mitsubishi's measurement standards

Symbol	Parameter	Test conditions	Min.	Typ.	Max.	Unit
Ith	Threshold current	CW	-	40	50	mA
Iop	Operating current	CW, Po=60mW	-	95	140	mA
Vop	Operating voltage	CW, Po=60mW	-	1.8	2.2	V
η	Slope efficiency	CW, Po=60mW	-	1.0	-	mW/mA
λp	Peak wavelength	CW, Po=60mW	775	785	795	nm
θ//	Beam divergence angle (parallel)	CW, Po=60mW	7	9	11	°
θ⊥	Beam divergence angle (perpendicular)	CW, Po=60mW	17	20	24	°

NSPF

MITSUBISHI LASER DIODES
ML6XX24 SERIES
 FOR OPTICAL INFORMATION SYSTEMS

OUTLINE DRAWINGS



There is no model with a monitor photo diode in ML6XX24 series.