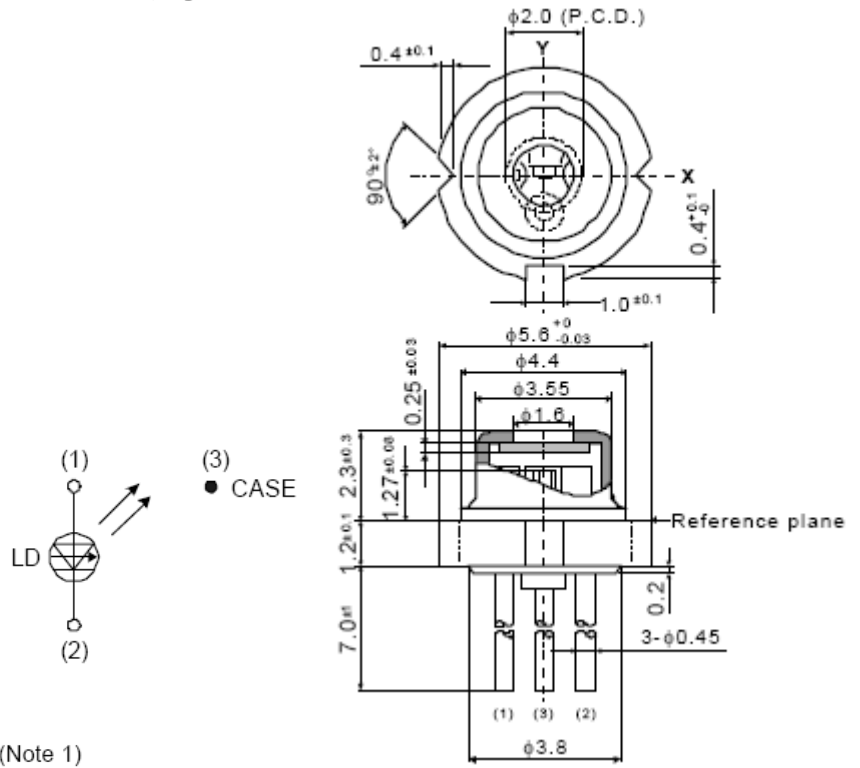


ML120G21

FEATURES

- High Output Power: 160mW (Pulse)
- High Efficiency: 0.95 W/A (typ.)
- Visible Light: 658nm (typ.)
- Low Aspect Ratio ($\theta_{\perp} / \theta_{\parallel}$): 1.8 (typ.)
- Low Astigmatic Distance: 1 μm (typ.)



ABSOLUTE MAXIMUM RATINGS (Note 1)

Symbol	Parameter	Conditions	Ratings	Unit
Po	Light output power	CW	80	mW
		Pulse(Note 2)	160	
VRL	Reverse voltage	-	2	V
Tc	Case temperature	-	-10 ~ +75	°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 issued by Quality Assurance Section, HF & Optical Semiconductor Division, Mitsubishi Electric Corporation.

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

ELECTRICAL/OPTICAL CHARACTERISTICS (Tc=25°C)

Symbol	Parameter	Test conditions	Min.	Typ.	Max	Unit
Ith	Threshold current	CW	-	65	-	mA
Iop	Operating current	CW, Po=80mW	-	150	-	mA
Vop	Operating voltage	CW, Po=80mW	-	2.4	3.0	V
η	Slope efficiency	CW, Po=80mW	-	0.95	-	mW/mA
λ_p	Peak wavelength	CW, Po=80mW	654	658	662	nm
θ_{\parallel}	Beam divergence angle (parallel)	CW, Po=80mW	7	9.5	12	°
θ_{\perp}	Beam divergence angle (perpendicular)	CW, Po=80mW	14	17	20	°