

SPECIFICATION	PREPARED BY:		R E V			
	CHECKED BY:					
	APPROVED BY:					
	DATE:					

Draft

1. Type	ML562G85-02
2. Application	Light Source
3. Structure	Red Laser Diode
4. Outline	G880367

5. Absolute maximum ratings					
No.	PARAMETER	SYMBOL	CONDITION	RATINGS	UNIT
(1)	Operation Current	I _{op}	CW	Fig.1	
(2)	Reverse Voltage	V _{RL}	-	2	V
(3)	Anode-Case Voltage (*1)	V _{ac}	-	-30~30	V
(4)	Operating Case Temperature	T _c	-	0~+55	°C
(5)	Storage Temperature	T _{stg}	-	-40~+85	°C
(6)	Soldering Temperature	T _{sol}	Lead Length ≥ 2mm	320°C, 2sec	

<Note> The maximum rating means the limitation over which the laser should not be operated even instant time, and this does not mean the guarantee of its lifetime. As for the lifetime, refer to the reliability report from Mitsubishi Semiconductor Quality Assurance Section.

*1: Voltage between Φ9 package and anode lead pin

6. Characteristics table							
No.	PARAMETER	SYMBOL	CONDITION (T _c =25°C(*2) unless otherwise specified)	LIMITS			UNIT
				MIN.	TYP.	MAX.	
(1)	Output Power	P _{op}	CW, I _{op} =2.25A, T _c =25°C		2.1	-	W
			CW, I _{op} =2.95A, T _c =45°C		2.1	-	W
			CW, I _{op} =2.50A, T _c =55°C		1.3	-	W
(2)	Threshold Current	I _{th}	CW, T _c =25°C		550		mA
(3)	Operating Voltage	V _{op}	CW, I _{op} =2.25A, T _c =25°C		2.25		V
(4)	Slope Efficiency	η	CW, T _c =25°C		1.2		W/A
(5)	Peak Wavelength	λ _p	CW, I _{op} =2.25A, T _c =25°C	635	639	644	nm
(6)	Beam Divergence (Full Width at 1/e ²)	θ _{//}	CW, I _{op} =2.25A, T _c =25°C		9		°
		θ _⊥	CW, I _{op} =2.25A, T _c =25°C		65		°

*2: Actual measurement temperature is adjusted in order to match an active layer temperature to that of stable condition at T_c=25°C.

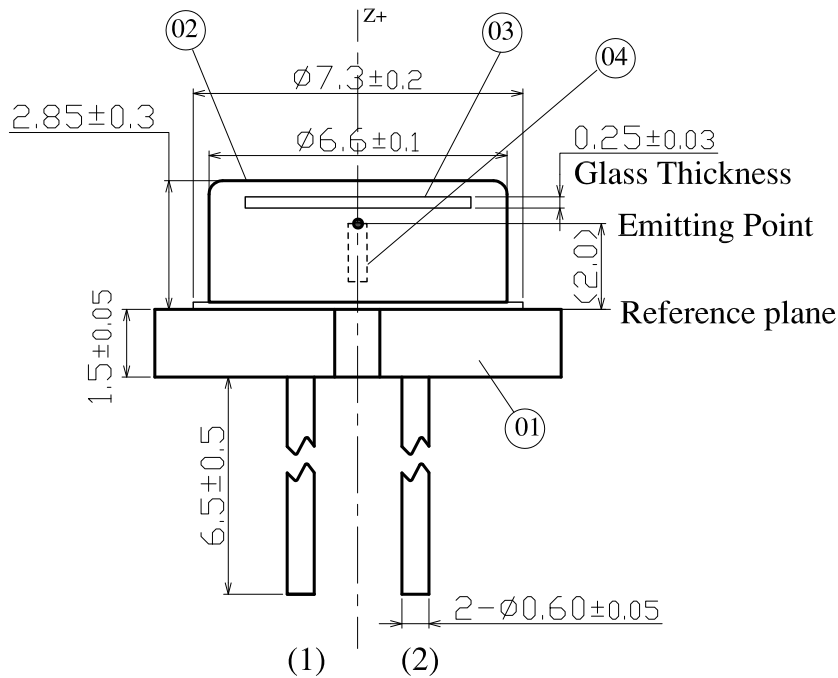
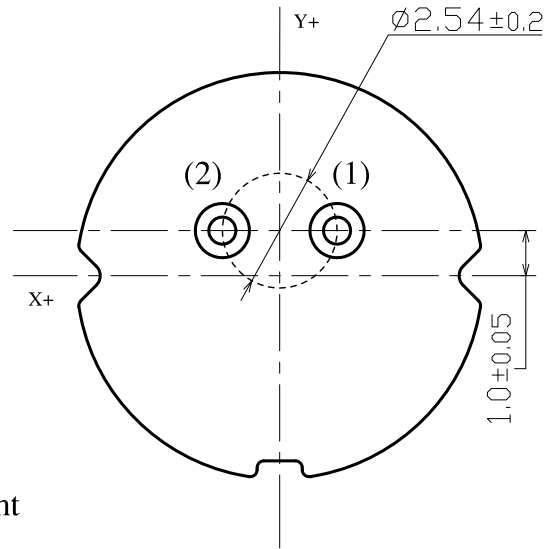
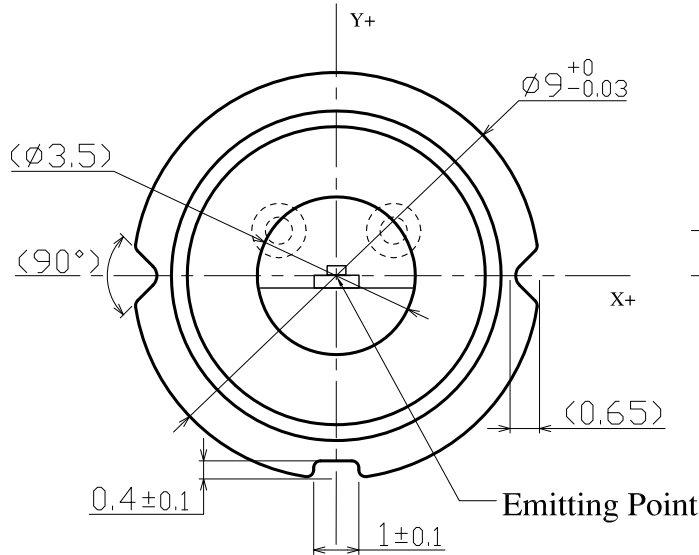
These specifications are based on MITSUBISHI's method.

記録

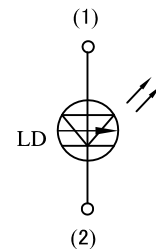
番号 NUMBER	品名 DESCRIPTION	材料 MATERIAL	備考 REMARKS
01	Base	SPC	
02	Cap	45Ni-Fe	
03	Window	Glass	Refractive Index $\cong 1.5$
04	Laser Diode Chip	GaAs-Base	

Positional accuracy of the emitting point

$|\Delta X|, |\Delta Y|, |\Delta Z|$ 0.08mm



Pin connection



改定 CHANGE

常用

保留

一時

商用

第3角法 3RD ANGLE PROJECTION

MITSUBISHI ELECTRIC CORPORATION

OUTLINE DRAWING

DIM IN (mm)

作成 DRAWN

照査 CHECKED

設計 DESIGNED

検認 APPROVED

62G pkg (Pb-free)

尺度 SCALE 10/1 NTS

作成日付 DATE '14-12/16

M.Mametani

M.Miyashita

K.Kuramoto

K.Mori
Feb.2, 2015

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880367

控出図先