

■ Features

- InGaAsP/InP MQW LD
- Low Threshold Current, Uncooled Operation without TEC
- InGaAs Monitor Pin Photodiode
- Excellent Reliability
- Operation Temperature -40°C to +85°C

■ 产品特点

- 采用 InGaAsP/InP 材料,多量子阱激光器
- 低阈值电流, 非制冷激光器
- InGaAs 背光监测探测器
- 高可靠性
- 操作温度-40°C到+85°C



■ Absolute maximum ratings

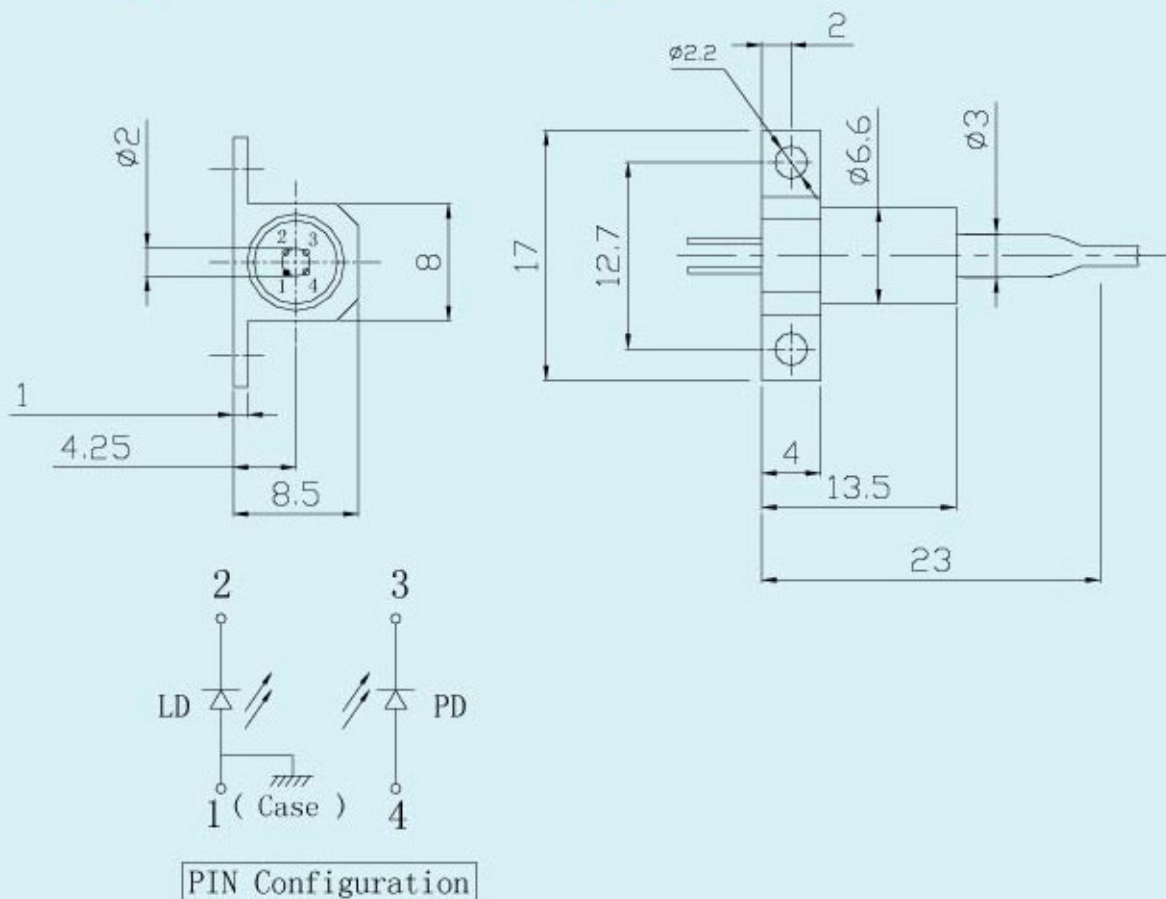
Parameter	Symbol	Min	Max	Unit	
Storage Temperature	Tstg	-40	+85	°C	
Operating Case Temperature	Top	ST***-1*	0	+70	°C
		ST***-2*	-40	+85	
Reverse Voltage (LD)	Vrl	-	2	V	
Forward Current (LD)	If	-	100	mA	
Reverse Voltage (PD)	Vr	-	20	V	
Reverse Current (PD)	Ird	-	2	mA	
Soldering Temperature/Time			260/10	°C/S	

■ Electrical and optical characteristics (Tc=25°C, unless otherwise noted)

Parameter	Symbol	Condition	Min	Typ	Max	Unit	
Threshold Current	Ith	CW	-	7	15	mA	
Optical Output Power	Pf	CW, If=Iop	0.1	1.0	-	mW	
Operating Current	Iop	CW, Pf=1.0mW	17	30	40	mA	
Operating Voltage	Vf	CW	-	1.1	1.5	V	
Peak Wavelength	λ_p	CW, If=Iop	1310	1270	1310	1355	nm
			1490	1460	1490	1520	
			1550	1520	1550	1580	
Spectral Width	$\Delta \lambda$	CW, If=Iop RMS	FP	-	-	3.0	nm
			DFB	-	-	1	
Tracking Error	Er	Im hold (@pf=1mW(25°C) Tc=0~+70°C, APC	-1.0	-	1.0	dB	
Rise/ Fall Time	Tr/Tf	Ib=Ith, 10%~90%	FP	-	0.3	-	ns
			DFB	-	0.2	-	
Monitor Current	Im	CW, If=Iop, VRD=5V	100	-	-	μ A	

Capacitance (PD)	Ct	Vrd=5V,f=1MHz	-	10	20	PF
Dark Current (PD)	Id	Vrd=5V	-	0.1	0.5	μ A

■ Package Dimension and Pin Assignment



Ordering Information

ST - -

LD Type(nm)		Package Type	Isola tor	Data Rate (b/s)	Operation Temperature	Output power (μW)	Flange & Mounting Bracket Type	Connector
1: 1310 FP	2: 1310 DFB	1: 3 Pin pigtail	0: No	1: 155M	1: 0~+70℃	1: 100~500	0: No	0: No
3: 1490 FP	4: 1490 DFB	3: 4 Pin pigtail	1: Yes	2: 622M	2: -40~+85℃	2: 500~1000	1: Ω Flange	1: FC/PC
5: 1550 FP	6: 1550 DFB			3: 1.25G		3: 1000~2000		2: FC/APC
				4: 2.5G		4: 2000~		3: SC/PC
								4: SC/APC
								5: ST/PC
								6: LC/PC