

## Product Overview

### Laser Diode Module

#### 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

#### Absolute maximum ratings

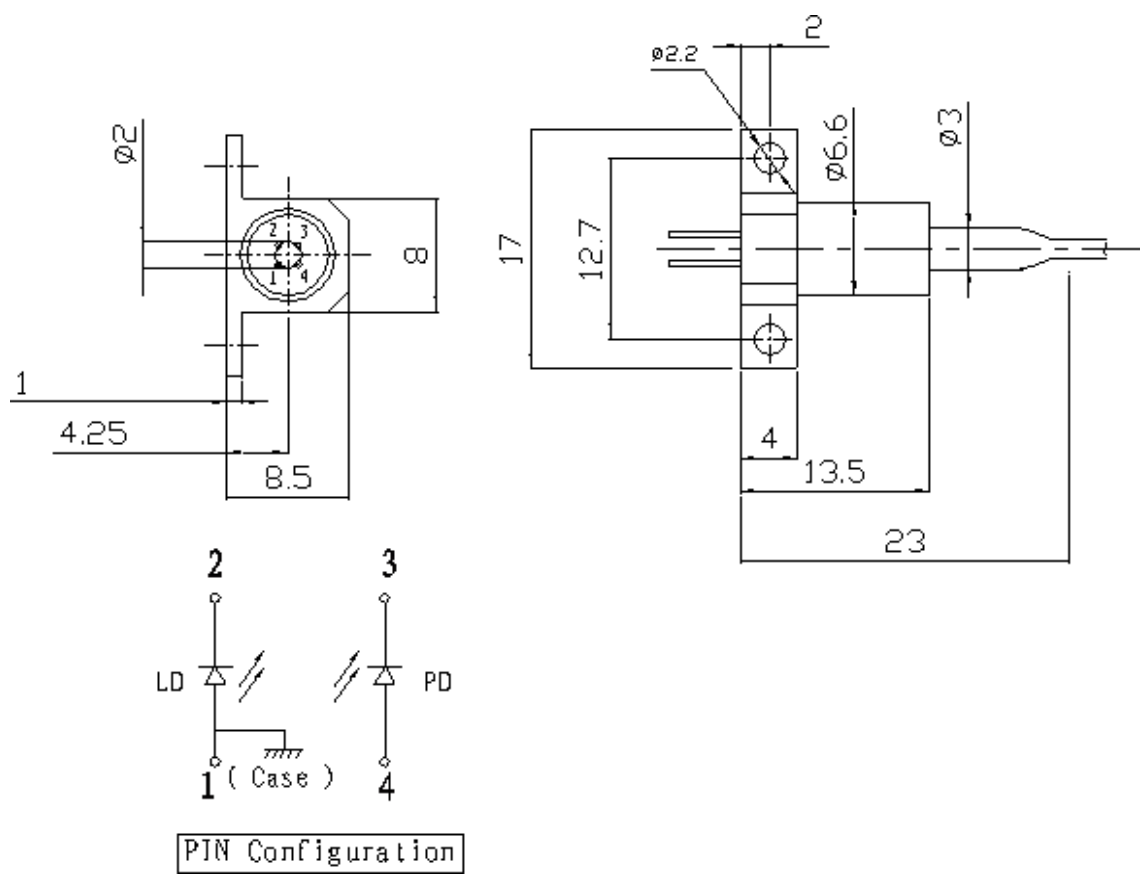
Parameter	Symbol	Min	Max	Unit
Storage Temperature	Tstg	-40	+85	°C
Operating Case Temperature	Top	0	+70	°C
		ST***-*1*	+85	
	ST***-*2*	-40		
Reverse Voltage (LD)	Vrl	-	2	V
Forward Current (LD)	If	-	100	mA
Reverse Voltage (PD)	Vr	-	20	V
Reverse Current (PD)	Ird	-	2	mA
Soldering Temperature		-	260/10	°C/S

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

Parameter	S 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	
			1310	1270	1310	1355	
Peak Wavelength	$\lambda_p$	CW, If=Iop	1490	1460	1490	1560	nm
			1550	1480	1550	1580	
Spectral Width	$\Delta\lambda$	CW, If=Iop RMS	FP	-	-	3.0	nm
			DFB	-	-	1	

			Im hold				
Tracking Error	Er	(@pf=1mW(25°C)	-1.0	-	1.0		dB
		Tc=0~+70°C,APC					
Rise/ Fall Time	Tr/Tf	Ib=Ith, 10%	FP	-	0.3	-	ns
		~90%	DFB	-	0.2	-	
Monitor Current	Im	CW, If=Iop, VRD=5V	100	-	-		μA
Capacitance (PD)	Ct	Vrd=5V,f=1MHz	-	10	20		PF
Dark Current (PD)	Id	Vrd=5V	-	0.1	0.5		μA

**Package Dimension and Pin Assignment**



**Ordering Information**

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LD Type(nm)	Package Type	Isolator	Data Rate (Mb/s)	Operation Temperature	Output power (μW)	Flange & Mounting Bracket Type	Connector
1: 1310 FP	2: 1310 DFB	1: 3 Pin pigtail	0: No	1: 155	1: 0~+70°C	1: 100~500	0: No

3:	4:	3:	1:	2:	2:	2:	1:	1:
1490 FP	1490 DFB	4 Pin pigtail	Yes	622	-40~+85°C	500~1000	Ω Flange	FC/PC
5:	6:			3:		3:		2:
1550 FP	1550 DFB			1.25G		1000~2000		FC/APC
				4:		4: 2000~		3:
				2.5G				SC/PC
								4: SC/APC
								5:
								ST/PC
								6:
								LC/PC

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