1650nm 1.8折大球镀膜 5Pin TO56(非制冷) datasheet

P/N：WITR-01B

Description

The 1650nm products are AlGaInAs/InP based DFB LD for Methane sensing applications.

Features

For 1650nm wavelength

Excellent SMSR Performance

High reliability design

RoHS Compliant

Package: TO 56

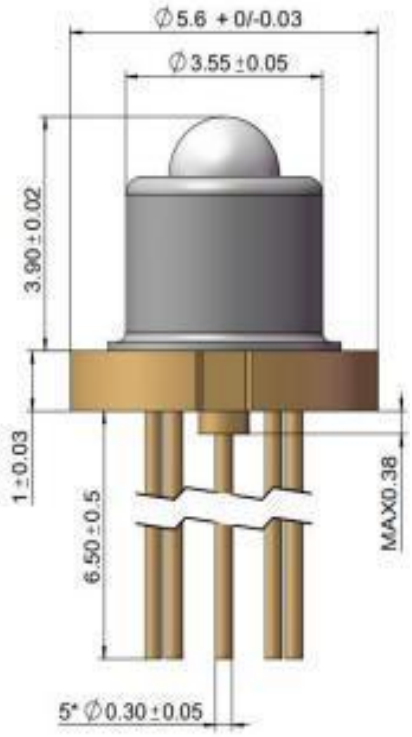
Absolute Maximum Ratings

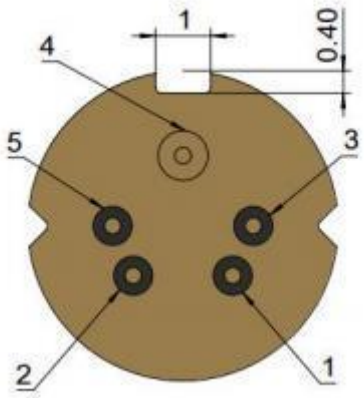
Parameter	Symbol	Min	Max	Unit
Storage Temperature	TSTG	-40	85	℃
Operating Case Temperature	TC	0	70	℃
Reverse Voltage(LD)	VRL	-	2	V
Laser Forward Current	IF	-	100	mA

Electrical/ OpticalCharacteristics(Tc= 2 5 ℃, unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Threshold current	Ith	CW, T=25℃	-	-	20	mA
Output Optical power	Po	CW, Iop=50mA	4	-	-	mW
Operating Voltage	Vf	CW, Iop=50mA	0.5	-	2	V
Series Resistance	Rs	CW, Po=1~4 mW	-	-	15	Ω
Center Wavelength	λc	CW, Iop=50mA,T=25℃	1646			nm
Side Mode Suppression Ratio	SMSR		35	-	-	dB
Spectrum Width (-20dB)	Δλ		0	-	1	nm
Temperature Tuning Coefficient	Δλ/ΔT	CW, Iop=50mA	-	0.1	-	nm/℃
Thermal Characteristics						
Thermistor Resistance	Rth	Tc=25℃	9.9	10	10.1	KΩ
B Constant of Rth	B	-	3812	3930	4047	K

Outline Drawings & Pin Connection Type





PIN Number	Definition
1	Heater
2	Thermistor
3	LD-
4	Thermistor/Heater
5	LD+

Precautions

1.Soldering irons, workbenches assembly and other tools and fixtures should be grounded to the discharge static electricity. Workers should wear anti-static clothes and be grounded via a wristband with high resistance (~ 10kΩ) for safety.

2.The soldering conditions for each pin: temperature :< 260℃, Time :< 10 seconds.

3.In order to prevent contact failure or short-circuit, please make sure correct connection of peripheral circuit when soldering. Otherwise, breakdown by overheat or burning may occur.

4.Please make sure power off when you touch this product connected to the printed circuit boards. Otherwise, electric shock or burning may occur.

5.Use the product with the rated voltage described in the specifications. If the voltage exceeds the maximum rating, overheating or burning may occur.