

## 760nm DFB Laser TO-CAN With TEC

### 1. Features:

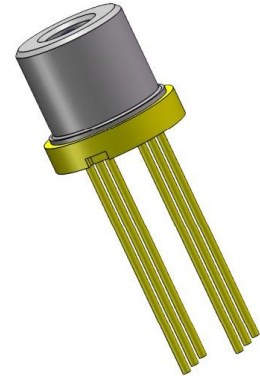
- DFB Laser
- High wavelength accuracy
- Low threshold current
- TO60 package with TEC.

### 2. Applications:

- Advanced O2 detection.

### 3. Absolute Maximum Ratings:

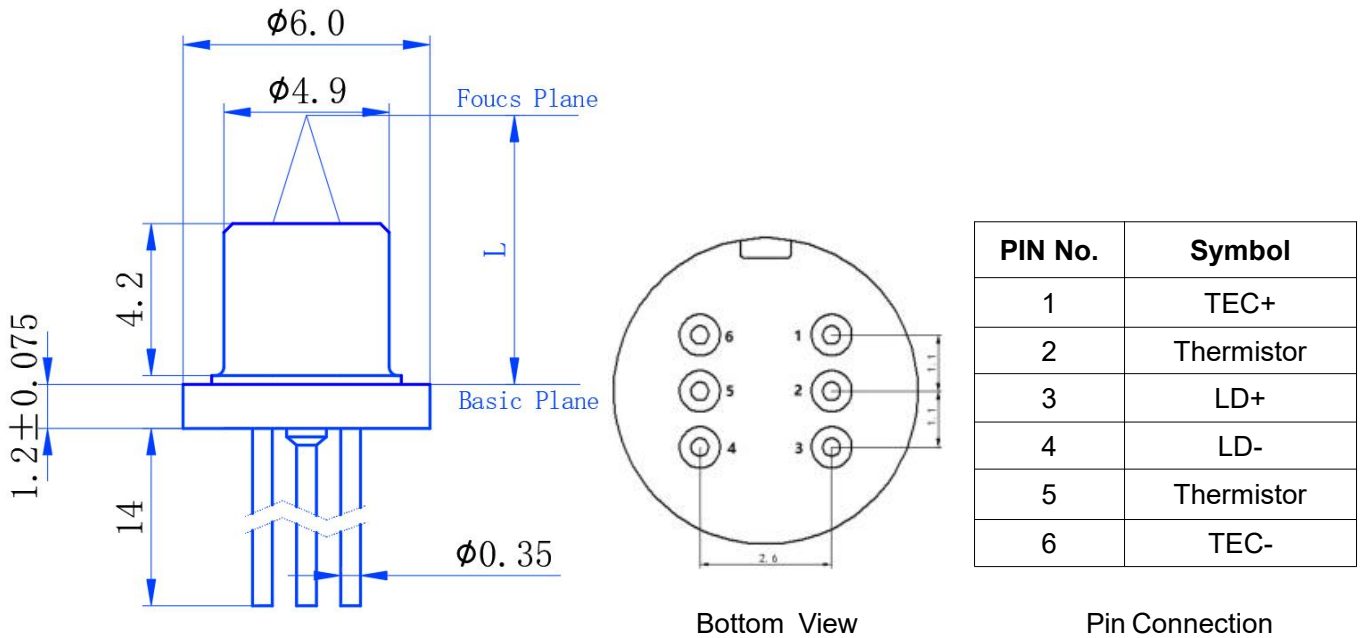
Parameters	Symbol	Min.	Max.	Unit
Forward current	$I_{FLD}$	-	150	mA
Forward voltage	$V_{FLD}$	-	2	V
Operating temperature	$T_{OP}$	-20	65	°C
Storage temperature	$T_S$	-20	60	°C
Solder reflow temperature	$T_{SLD}$		260/10	°C/S



### 4. Electrical/Optical Characteristics ( T=25°C )

Parameters	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Threshold current	$I_{TH}$	CW, 25°C		10	30	mA
Output power	$P_O$	$I_{OP}=100mA$	60			mW
Centre wavelength	$\lambda$	$I_{OP}=100mA$	759	760	761	nm
Slope efficiency	SE	$I_{OP}=100mA$		-	2.6	mW/mA
Forward voltage	$V_F$	$I_{OP}=100mA$		-	2.6	V
Resistance	R	CW		-	15	$\Omega$
Side mode suppression ratio	SMSR	$I_{OP}=100mA$	35	-	-	dB
Thermistor resistance	RT	25°C	-	10	-	K $\Omega$
Beta coefficient (25°C/85°C)	Beta	-	3800	3930	4000	K
TECr	$I_{MAX}$			-	1.2	A
	$V_{MAX}$			-	1.58	V
	$Q_{MAX}$			-	1.2	W
	$\Delta T$			-	70	K

## 5. Outline Drawings & Pin Connection Type



## 6. Product Compliance Information:

·ESD Sensitivity Ratings

Value:  $\geq 500V$

Test: Human Body Model (HBM)

·RoHS Compliance

This part is compliant with 2011/65/EU and 2015/863 RoHS directive (Restrictions on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment).

## 7. Precaution:

- (1) The modules should be handled in the same manner as ordinary semiconductor device to prevent the electro-static damages. For safety keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- (2) Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.
- (3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.
- (4) Warranty: 1 year.