



1064 nm DFB Laser

(P/N.: DFB-1064-9mm-TO-01)

Features

- Multi-Quantum Well (MQW) Distributed Feedback (DFB) laser diode.
- Packaged in a 9mm TO-package with flat window.

Absolute Maximum Ratings

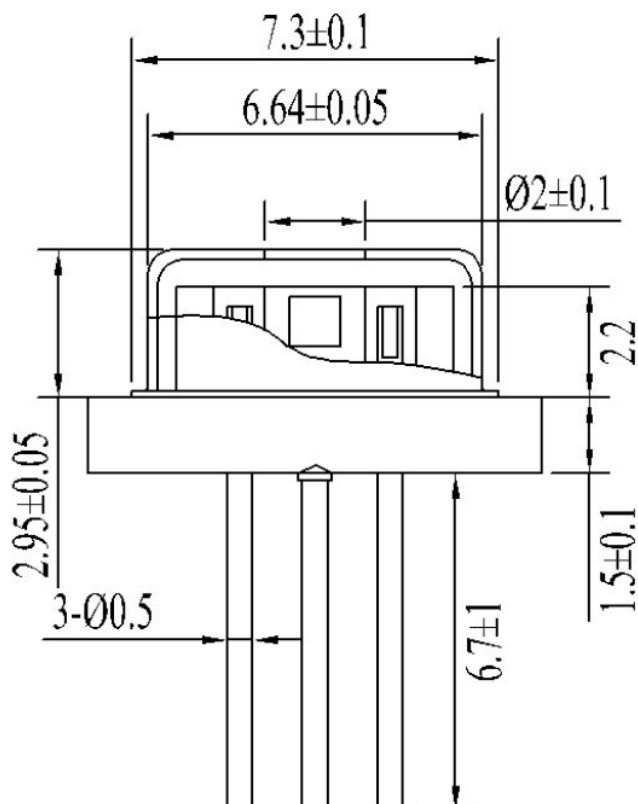
Parameter	Symbol	Min	Max	Unit	Condition
Operating Case Temperature	T_c	5	50	°C	--
Storage Temperature	T_{stg}	-40	85	°C	--
Forward current	I_F	-	300	mA	--
Output power	P_{OUT}	-	120	mW	--
Lead solder Temperature	--	-	260	°C	--
Lead Soldering Time	--	-	3	s	--

Opto-Electrical Characteristics

Parameter	Symbol	Min	Typ	Max	Unit	Test Conditions
Center Wavelength	λ_c	1062	-	1069	nm	CW, T=25 °C
Spectral width	$\Delta\lambda$	-	-	0.2	nm	
Optical Output Power	P_o	-	100	-	mW	CW, T=25°C
Threshold Current	I_{th}	-	-	70	mA	T=25°C
Operating current	I_{OP}	-	-	200	mA	CW, T=25°C
Temperature coefficient of λ	$\Delta\lambda / \Delta T$	-	0.06	-	Nm/K	
Current coefficient of λ	$\Delta\lambda / \Delta I$	-	0.004	-	nm/mA	
Side-mode Suppression Ratio	SMSR	25	-	-	dB	
Beam divergence (major axis)	$\Theta_{\perp}$	-	22	-	°	
Beam divergence (minor axis)	$\Theta_{\parallel}$	-	9	-	°	



Dimensional outline (units = mm)



Pin	Description
1	LD-
2	LD+
3	NC

