

# 1550nm Pulse Laser For OTDR

## Features

- High output power  $P_f = 20\sim 40$  mW @ IFP = 200mA
- Long wavelength  $\lambda_c = 1550$  nm
- Built-in/out monitor PD
- Pulse Conditions: Pulse width (PW) = 10  $\mu$ s, Duty = 1%



## Applications

OTDR System

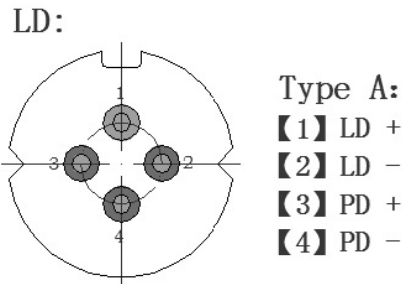
## Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit
Pulsed Forward Current	IFP			500	mA
Reverse Voltage	VR			2	V
Reverse Voltage (monitor PD)	VRM			10	V
Reverse Current (monitor PD)	IFPM			2	mA
Operating Case Temperature	TC	0		60	°C
Storage Temperature	Tstg	-40		85	°C
Lead Soldering Temperature	Tsld			260(10s)	°C
Relative Humidity (noncondensing)	RH			85	%

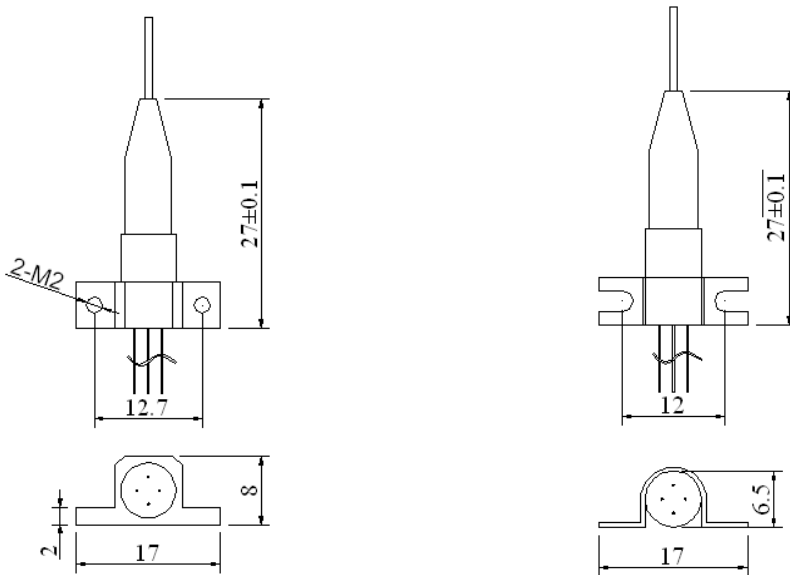
## Optical & Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Forward Voltage	VFP		2.0	2.5	V	IFP = 200 mA, PW = 10 $\mu$ s, Duty = 1%
Threshold Current	I <sub>th</sub>		5	10	mA	
Optical Output Power From SM Fiber	P <sub>f</sub>	20	40		mW	IFP = 200 mA, PW = 10 $\mu$ s, Duty = 1%
Center Wavelength	$\lambda_c$	1530	1550	1570	nm	IFP = 200 mA, PW = 10 $\mu$ s, Duty = 1%
Spectral Width	$\sigma$			4	nm	RMS (-3 dB)
Rise Time	t <sub>r</sub>		0.5	2.0	ns	10-90%
Fall Time	t <sub>f</sub>		0.5	2.0	ns	90-10%
Monitor Current	I <sub>m</sub>	0.05		2	mA	VRM = 5 V

## Pin Description:



## Package Outline



## Order information

### PLD-F552-XAXX

P	LD	-F	55	2	-X	A	X	X
Mode	Product Type	Chip	Wavelength	Bandwidth	Connector	Pin	Pigtail Length	Power Range
		F: FP	55: 1550nm	2: 2.5Gb/s	1: FC/APC 2: FC/PC 3: SC/APC 4: SC/PC 5: LC/PC 6: LC/APC	A: 725	05: 0.5m 10: 1.0m	P20: >20mW P40: >40mW