



LDI-FP-650-2P

650nm 2mW FP LASER DIODE MODULES

These laser diode modules are 650nm laser-diode modules with single-mode fiber pigtails. These modules are optimal light sources for red locators.

Absolute maximum ratings

LD forward current, I_{fl}	60mA
LD reverse voltage, V_{rl}	2V
PD reverse voltage, V_{rd}	30V
Operating case temperature, T_c :	
LDI H-FP-650-2P-W(H)	-20 ÷ +50°C
LDI H-FP-650-2P-T	-20 ÷ +40°C
Storage temperature, T_{stg}	-30 ÷ +60°C

Electrical / optical characteristics (SM, T=25°C)

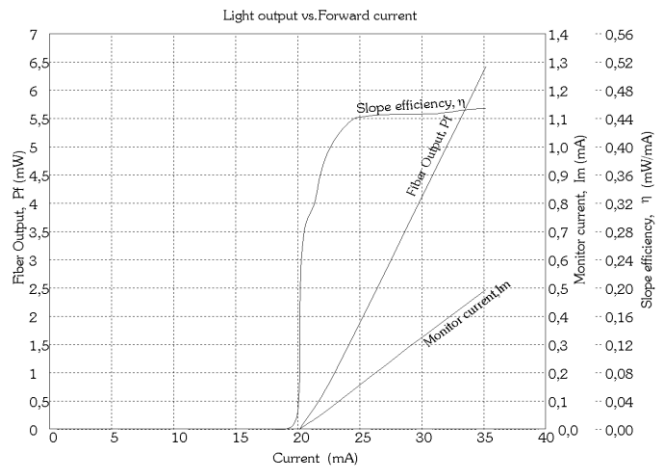
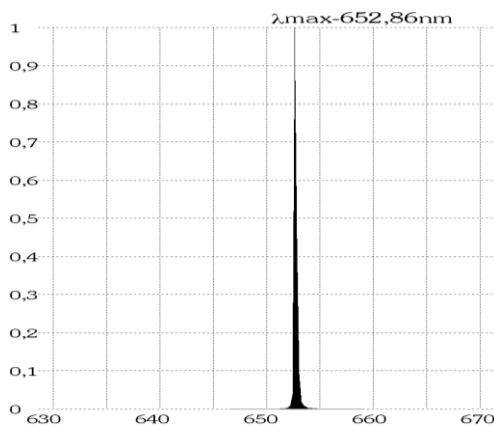
Parameter		Min.	Typ.	Max.	Unit	Test conditions
Wavelength	λ	645	655	660	nm	CW, P=2mW
Threshold current	I_{th}		20	23	mA	CW
Operating current	I_{op}		25	30	mA	CW, P=2mW
Operating voltage	V_{op}		2.1	2.2	V	CW, P=2mW
Slope efficiency	η	0.4	0.45	0.5	mW/mA	CW, P=2mW
Spectral width	$\Delta\lambda$		1	2	nm	CW, P=2mW, FWHM
Monitoring output current (PD)	I_m	0.1	0.15	0.2	mA	CW, P=2mW, $V_{rd}=5V$

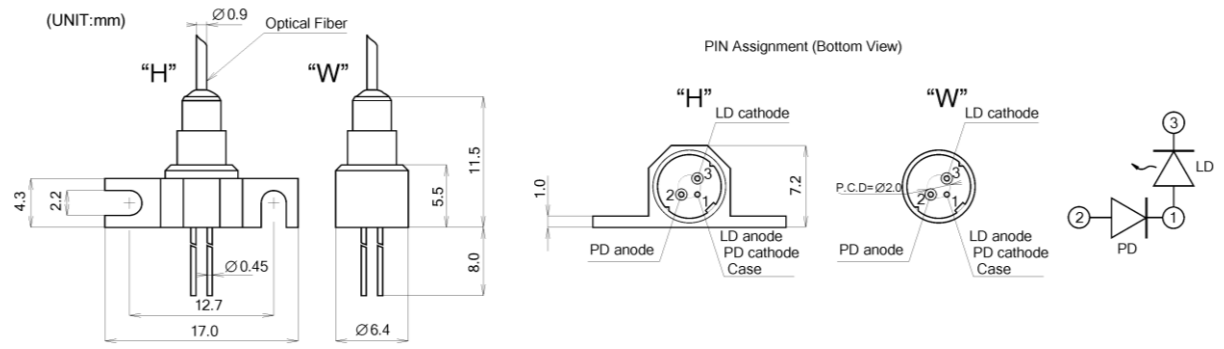
Ordering information

LDI-FP-650-2P-X-SM-X

Case type: W, H, T

Connector type: FC/UPC, N – without connector

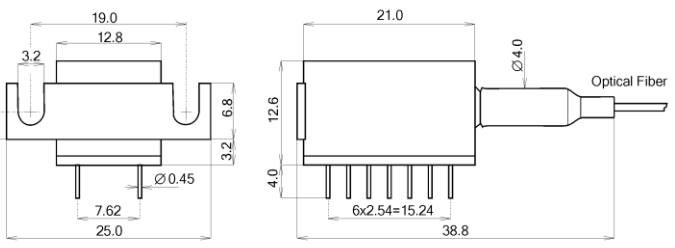




PACKAGE DIMENSIONS (UNIT:mm)

Thermistor
technical data
 $R_t = R_{25} \cdot \text{EXP}(b \cdot (T^{-1} - T_{25}^{-1}))$
 $R_{25} = 10k\Omega$
 $b = 3450$
 $T = t + 273$
 $T_{25} = 298$
 Power rating 51mW

Cooler
technical data
 $I_{\text{max}} = 600\text{mA}$
 $Q_{\text{max}} = 1100\text{mW}$
 $V_{\text{max}} = 3.5\text{V}$



PIN Assignment (Bottom View)

