

DFB Laser Diode 760nm 20mW

FNPL-20S-760-DFB



FNPL-20S-760-DFB is a CW DFB semiconductor laser diode. It is delivered in standard SOT-148 and TO-56 packages with optional monitor diode to stabilize power output and TO-5 and TO-8 packages with integrated TEC, thermistor and monitor diode. Custom mounts are available upon request.

Key Features

Excellent reliability
Variety of packaging options

Applications

High performance gas sensing O₂
Gas Sensing
Sensing of liquids
Free space communications
Spectroscopy

Optical and electrical characteristics: (T = 25 °C)

Operating parameters	Symbol	Min	Typ	Max	Unit
Optical output power	P _{out}	-	20	22	mW
Lasing wavelength	λ	759	761	762	nm
Threshold current	I _{th}	15	20	30	mA
Forward current	I _f	-	50	60	mA
Operating Voltage			2.0	2.5	V
Beam divergence parallel	$\Theta_{ }$	10	15	20	deg.
Beam divergence perpendicular	$\Theta_{\perp}$	25	30	35	deg.
Side mode suppression		30	35	40	dB
Spectral width (FWHM)	$\Delta\lambda$	-	-	3	MHz
Emitting area	WxH	-	2x1.5	-	μm
Slope efficiency	dP _o /dI _{op}	0.6	0.7	0.9	mW/mA
Current tuning rate	C _I	0.008	0.01	0.03	nm/mA
Temperature tuning rate	C _T	0.03	0.04	0.08	nm/K
Operating temperature	T _C	-20		+50	°C
Storage temperature	T _S	-20		+85	°C

TYPICAL PERFORMANCE

