



75W 905nm pulsed laser diode

(P/N.: PLD-905-75W-B-01)

Features

- 3 stack PLD
- Laser wavelength 905nm
- Peak output power 75W
- Optical aperture size 200 μ m x 10 μ m

Applications

- Laser range finding
- Missile fuses

Absolute Maximum Ratings

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	T _C	-40	-	85	°C
Storage Temperature	T _{STG}	-40	-	100	°C
Pulse duration	t _{pulse}			100	ns
Duty cycle	RR	-	-	0.1	%
Forward current	I _F	-	-	40	A
Lead Soldering Temperature	T _{SOL}	-	-	260 (10s)	°C
Reverse voltage	V _R	-	-	3.0	V

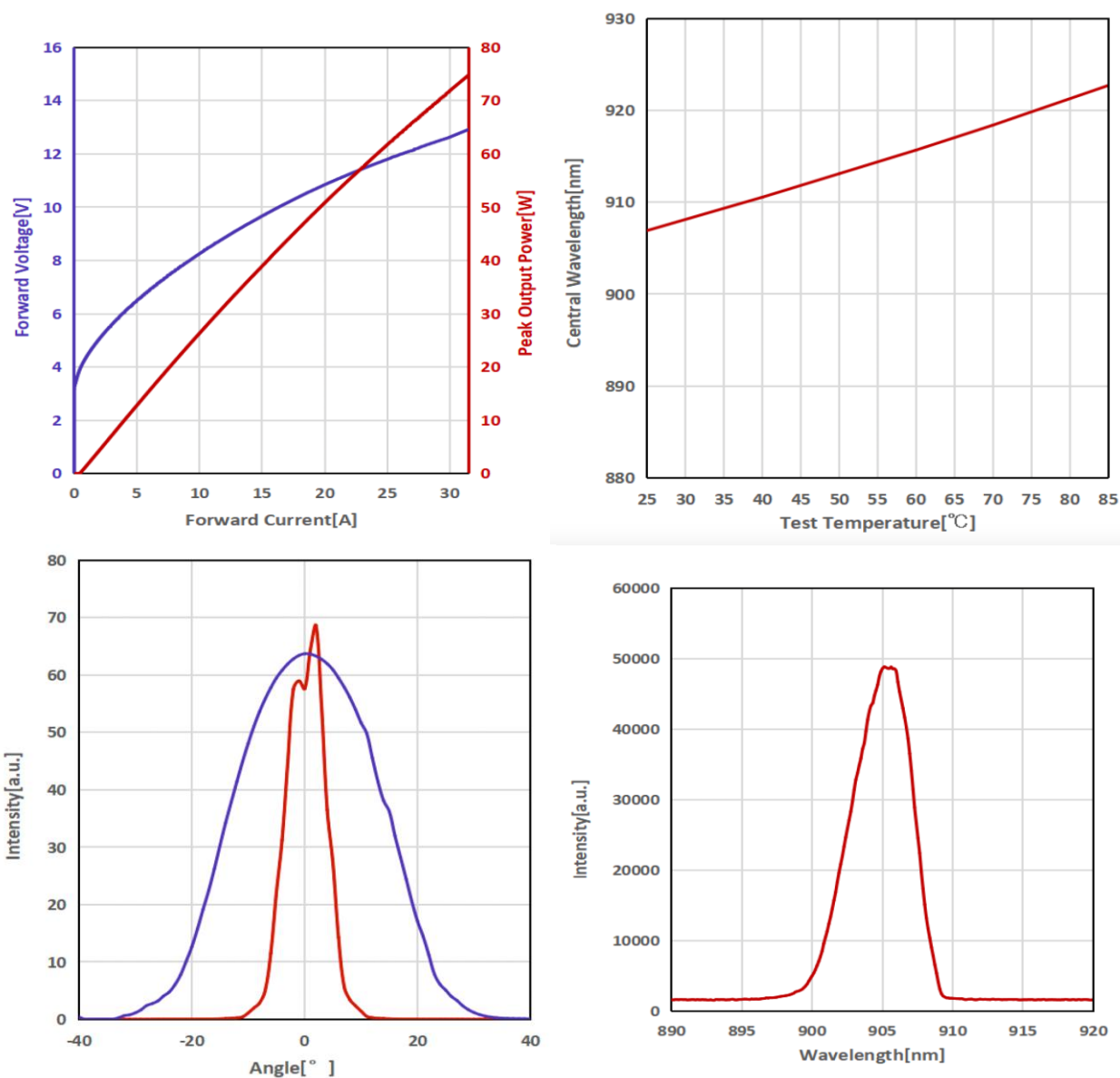
Opto-Electrical Characteristics

t_{pulse} = 100ns, f = 1kHz, T_a = 25°C

Parameter	Symbol	Min	Typ	Max	Unit
Central wavelength	λ	895	905	915	nm
Spectral width	λ_{FWHM}	-	5	10	nm
Temp coefficient of wavelength	$\Delta \lambda / \Delta T$	-	0.28	95	nm/°C
Threshold current	I _{TH}	-	0.5	1	A
Forward current	I _F	-	32	-	A
Beam divergence (horizontal)	$\theta_{//}$	-	10	-	°
Beam divergence (vertical)	$\theta_{\perp}$	-	30	-	°
Emission area (aperture)			300x10		μ m



Typical Performance at 25°C, $t_{\text{pulse}} = 100\text{ns}$, $f = 1\text{kHz}$





Dimensional outline (units = mm)

