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PLD904-2-T TECHNICAL DATA

Pulsed Infrared Laser Diode

Structure: MOCVD

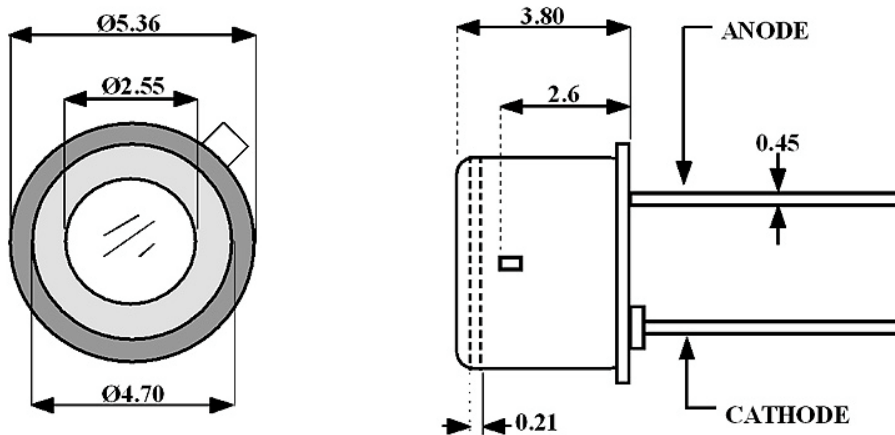
Lasing wavelength: 904 nm

Peak power: 3 W

Package: TO-18T



PIN CONNECTION:



Maximum Ratings (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Peak Output Power	P _o	3	W
Operation Case Temperature	T _c	-30 .. +100	°C
Storage Temperature	T _{STG}	-60 .. +100	°C

Optical-Electrical Characteristics (Tc = 25°C), Pulselength 50 ns, 1 kHz

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I _{th}	pulsed mode	80	150	220	mA
Peak Current	I _p	P _o = 2 W	-	-	3	A
Peak Voltage	V _p	P _o = 2 W	-	-	4	V
Lasing Wavelength	λ _p	P _o = 2 W	895	904	915	nm
Emitting Aperture	A _E	P _o = 2 W	-	40 x 1	-	μm ²
Beam Divergence	θ _{//}	P _o = 2 W	8	10	11	°
Beam Divergence	θ _⊥	P _o = 2 W	30	40	50	°
Duty Factor	D	P _o = 2 W	-	0.1	-	%