



LD980-50-1

● Specifications:

Wavelength: 980nm
 Power: 50mW CW
 Package: TO18

● Absolute Maximum Ratings($T_c=25^\circ\text{C}$):

Parameter		Symbols	Ratings	Units
Light Output	CW	P_o	50	mW
Reverse Voltage	Laser	V_r	2	V
	PD	$V_r(\text{PIN})$	30	V
Operation Temperature		T_{op}	-10~+50	$^\circ\text{C}$
Storage Temperature		T_{stg}	-40~+80	$^\circ\text{C}$

● Electrical and Optical Characteristics($T_c=25^\circ\text{C}$):

Parameter		Symbols	Condition	Min.	Typ.	Max.	Unit
Lasing Wavelength		λ_p	$P_o=50\text{mW}$	970	980	990	nm
Threshold Current		I_{th}	CW	-	-	25	mA
Operating Current		I_{op}	$P_o=50\text{mW}$	-	-	120	mA
Operating voltage		V_{op}	$P_o=50\text{mW}$	-	-	2.0	V
Monitoring Output Current		I_m	$P_o=50\text{mW}$ $V_r=0\text{V}$	0.1	-	-	mA
Beam ¹⁾ Divergence	Parallel	$\theta_{//}$	$P_o=50\text{mW}$	-	-	10	deg.
	Perpendicular	θ_{\perp}	$P_o=50\text{mW}$	-	-	40	deg.
Slope Efficiency		η	-	0.6	-	-	mW/mA
Size of Emitter		-	-	4x1		-	um

1) Full angle at half Maximum

