

Laser Diode

LD-980-50I

Features:

- Infrared light output : 980nm
- Optical output power : 50mW CW
- TO-18 package (Dia. 5.6mm)
- Single mode index guide
- No monitoring PD, 9850SA be operated ACC circuit

Absolute maximum ratings ($T_c = 25^\circ\text{C}$)

Item	Symbol	Value	Unit
Optical output power	P_o	50	mW
LD reverse voltage	$V_{R(LD)}$	2	V
PD reverse voltage	$V_{R(PD)}$	30	V
Operating temperature	T_{opr}	0 ~ +80	$^\circ\text{C}$
Storage temperature	T_{stg}	-40 ~ +85	$^\circ\text{C}$

Optical and electrical characteristics ($T_c = 25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Lasing wavelength	λ_p	965	980	995	nm	$P_o=50\text{mw}$
Optical output power	P_o	-	-	50	mW	Kink free
Threshold current	I_{th}	3	8	11	mA	-
Operating current	I_{op}	80	90	100	mA	$P_o=50\text{mw}$
Operating voltage	V_{op}	1.7	1.9	2.1	V	$P_o=50\text{mw}$
Beam divergence	Θ_{\parallel}	8	10	12	deg.	$P_o=50\text{mw}$
	Θ_{\perp}	33	35	37	deg.	$P_o=50\text{mw}$

Pin Configuration

