



RLT980-50MGS

- IR Laser Diode
- 980 nm, 50 mW
- Single Mode
- 5.6 mm TO Package, Flat Window



Description

RLT4980-50MGS is an infrared laser diode, typically emitting at 976 nm. It features single mode emission and operating temperature range of up to 40°C. **RLT980-50MGS** comes in 5.6 mm TO-Can package with **integrated monitor PD**.

Maximum Rating*

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		2	V
Operating Temperature*	T_{OPR}	- 0	+ 40	°C
Storage Temperature*	T_{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

* operating close to or outside these conditions may damage the device



Electro-Optical Characteristics ($T_{CASE} = 25^\circ\text{C}$)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_P	960	976	990	nm
Spectral Width	λ_Δ		2.0		nm
Optical Output Power	P_O		50		mW
Operating Voltage	V_F		1.6	2.2	V
Threshold Current	I_{th}		15	30	mA
Operating Current	I_F		75	85	mA
Slope Efficiency	η		0.8		W/A
Monitor Current	I_M		0.3		mA
Beam Divergence (FWHM)	parallel	$\theta_{ }$	15	20	deg.
	perpendicular	θ_{\perp}	35	40	deg.



