



RLT820-150MGS

- IR Laser Diode
- 820 nm, 150 mW
- Single Transverse Mode
- 5.6 mm TO Package, Flat Window



Description



RLT820-150MGS is an infrared laser diode, typically emitting at 820 nm. It features single mode emission and operating temperature range of up to 50°C. **RLT820-150MGS** 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
PD Reverse Voltage	V_{RPD}		25	V
Operating Temperature*	T_{OPR}	- 20	+ 50	°C
Storage Temperature*	T_{STG}	- 40	+ 85	°C
Soldering Temperature (3 s)	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	810	820	830	nm
Spectral Width	λ_Δ		3.0		nm
Optical Output Power	P_O		150		mW
Operating Voltage	V_F		2.3	2.8	V
Threshold Current	I_{th}		35	60	mA
Operating Current	I_F		200	230	mA
Slope Efficiency	η		0.9		W/A
Monitor Current	I_M		0.6		mA
Beam Divergence (FWHM)	parallel	$\theta_{ }$	8		deg.
	perpendicular	θ_{\perp}	28		deg.



