



RLT785-120MGSP

- Infrared Laser Diode
- 785 nm, 120 mW, built in PD
- Single Mode
- 5.6 mm TO Package, Flat Window



Description

RLT785-120MGSP is an IR laser diode, typically emitting at 785 nm. It features **single mode emission** and operating temperature range of up to 60°C. It is an efficient radiation source for many applications like laser projection, metrology, or use in the biomedical field. **RLT785-120MGSP** 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}	- 20	+ 60	°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	775	785	800	nm	
Spectral Width	λ_Δ		2.0		nm	
Optical Output Power	P_O		120		mW	
Operating Voltage	V_F		2.0	2.4	V	
Threshold Current	I_{th}		35	65	mA	
Operating Current	I_F		150	170	mA	
Monitor Current	I_M		0.2		mA	
Slope Efficiency	η		1.0		W/A	
Beam Divergence (FWHM)	parallel	$\theta_{ }$	5	9	12	deg.
	perpendicular	θ_{\perp}	35	36	42	deg.



