INFRA-RED LASER DIODE

SDL-915-300-901N

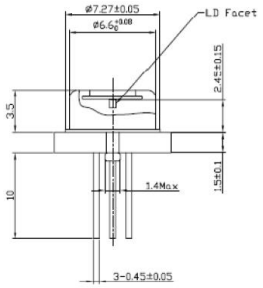
Features

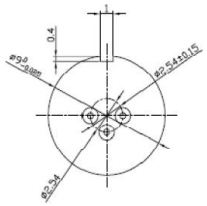
Wavelength: 915nm (Typ.)
Optical power: Po = 300mW (Typ.)
Package: TO-5, Φ9mm (RoHS compliant)

Applications

Industrial Applications

Package





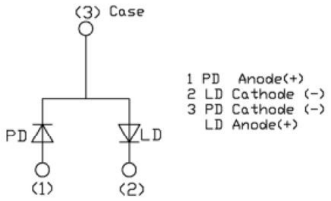
Absolute Maximum Ratings

(Tc=25°C)

Parameter	Symbol	Rating	Unit
Optical Output	Po	**300**	mW
Reverse Voltage	Vr	**2**	V
Operating Temperature	Top	-20~+50	℃
Storage Temperature	Tstg	-40~+80	℃

* Case Temperature

Pin Connection



Electrical and Optical Characteristics

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	-	-	-	**30**	mA
Operating Current		Iop	Po=300W	-	-	**370**	A
Operating Voltage		Vop	-	-	-	**2.0**	Volt
Slope Efficiency		η	Po=300W	-	-	**0.9**	mW/mA
Temperature Coefficient of λ			Po=300W	-	**0.28**	-	nm/°C
Beam Divergenc	Parallel	θ //	Po=300W	-	-	**28**	deg.
(FWHM)	Perpendicular	θ ⊥	Po=300W	-	-	**28**	deg.
Lasing Wavelength		λ		**910**	**915**	**920**	nm
Spectral Width				-	-	**0.5**	nm
Monitor Current		Im		-	**0.2**	-	mA

* Angle at 50% peak intensity (full-width at malf-maximum)

Note: The above specification is subject to change without notice

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