



RLT1060-350G

TECHNICAL DATA



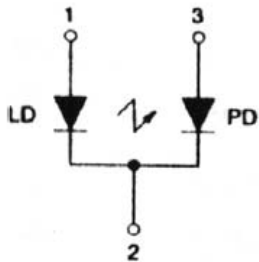
High Power Infrared Laser Diode

Lasing wavelength: **1064 nm, typ.**
Max. optical power: **350 mW**
Package: **9 mm (SOT-148)**

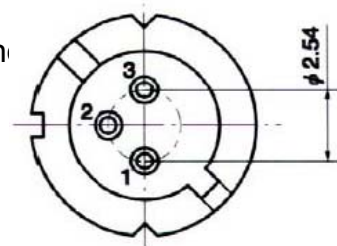
NOTE!
LASERDIODE
MUST BE COOLED!

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICE

PIN CONNECTION:



- 1) Laserdiode anode
- 2) Laserdiode cathode and photodiode cath
- 3) Photodiode anode



Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	MIN	TYP	MAX	UNIT
Lasing Wavelength	λ_p	1059	1064	1069	nm
Spectrum FWHM	λ_f		0.5	2	nm
Optical Output Power	P_o	-	350	-	mW
Kink-free Power	P_K	385			mW
Treshold Current	I_{op}		50	100	mA
Operation Current	I_{op}		450	550	mA
Operation Voltage	V_{op}	-	1.7	2.0	V
Beam Divergence	$\Theta_{//}$		8	10	°
Beam Divergence	Θ		28	30	°
Lifetime	t	100000			hours
Slope Efficiency	η	0.8	0.9		W/A



Absolute Maximum Ratings (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Operating Temperature	T _{op}	-20 .. +30	°C
Storage Temperature	T _{stg}	-40 .. +80	°C
Lead Soldering Temperatur (<5sec)	T _{sol}	+250°	°C



ESD Caution

Always handle diode lasers with extreme care to prevent electrostatic discharge, the primary cause of unexpected diode failure. You can prevent ESD by always wearing wrist straps, grounding all applicable work surfaces, and following extremely rigorous anti-static

Safety

Caution: Laser light emitted from any diode laser is invisible and may be harmful to the human eye. Avoid looking directly into the diode laser aperture when the device is in operation.

Note: The use of optical instruments with this product will increase eye hazard.