ROITHNER LASERTECHNIK
Wiedner Hauptstraße 76, A-1040 Vienna, Austria
Tel.: ++43 1 586 52 43-0, Fax -44, office@roithner-laser.com

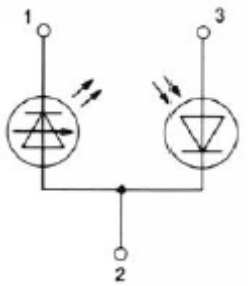
# RLT1550-100G

**TECHNICAL DATA**

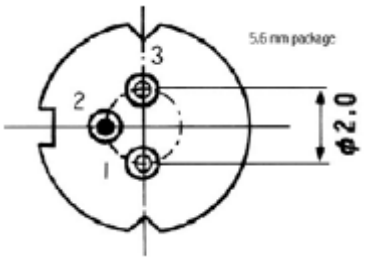
## Infrared Laser Diode

Structure: **GaInAsP/InP, SQW structure**
Lasing wavelength: **typ. 1580 nm, multi mode**
Max. optical power: **100 mW**
Package: **9 mm (SOT-148)**


### PIN CONNECTION:




1) Laserdiode cathode
2) Laserdiode anode and photodiode cat
3) Photodiode anode




**Optical-Electrical Characteristics (Tc = 25°C)**

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Optical Output Power | $P_o$ | cw | - | 100 | - | mW |
| Threshold Current | $I_{th}$ | cw | 300 | 400 | 600 | mA |
| Operation Current | $I_{op}$ | $P_o$ = 100 mW | 700 | 800 | 1000 | mA |
| Operation Voltage | $V_{op}$ | $P_o$ = 100 mW | 2.3 | 2.4 | 2.5 | V |
| Lasing Wavelength | $\lambda_p$ | $P_o$ = 100 mW | - | 1580 | 1582 | nm |
| Spectra halfwidth (FWHM) | $\Delta\lambda$ | $P_o$ = 100 mW | 3 | 4 | 6 | nm |
| Beam Divergence | $\Theta_{//}$ | $P_o$ = 100 mW | 8 | 10 | 12 | ° |
| Beam Divergence | $\Theta$ | $P_o$ = 100 mW | 43 | 45 | 47 | ° |
| Emitting area | Wxd | | - | 100x 1 | - | µm x µm |