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

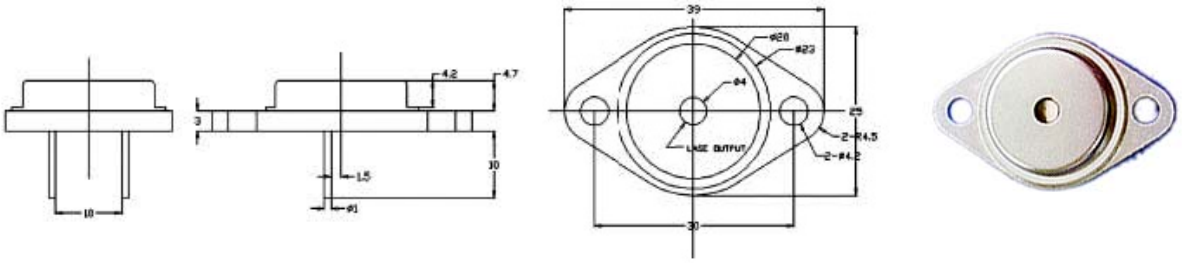
RLT67300T

TECHNICAL DATA

High Power Red Laser Diode

Emitting Aperture: **1x100 µm²**
Lasing Wavelength: **typ. 670 nm**
Optical Power: **300 mW cw**
Package: **TO3 w/o Photodiode**

NOTE!
LASERDIODE
MUST BE COOLED!



Laser Diode Anode = Case

Absolute Maximum Ratings (Tc = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	350	mW
LD Reverse Voltage	$V_{R(LD)}$	3	V
Operating Case Temperature	T_C	-20 .. +50	°C
Storage Temperature	T_{STG}	-30 .. +70	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I_{th}	cw	450	500	550	mA
Operating Current	I_{op}	P_o = 300 mW	800	850	900	mA
Operating Voltage	V_{op}	P_o = 300 mW	2.0	2.1	2.2	V
Lasing Wavelength	λ	P_o = 300 mW	670	673	675	nm
Spectral Width	$\square\lambda$	P_o = 300 mW	0.9	1.0	1.1	nm
Beam Divergence	$\theta_{\perp}$	P_o = 300 mW	28	30	33	°
Beam Divergence	$\theta_{//}$	P_o = 300 mW	3.5	5	5.5	°
Differential Resistance	R_d	P_o = 300 mW	0.25	0.3	0.35	Ω
Differential Efficiency	dP_o/dI_{op}	P_o = 300 mW	0.8	0.9	0.95	W/A