

ROITHNER LASERTECHNIK

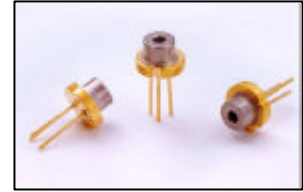
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RLT6650MG

TECHNICAL DATA



High Power Visible Wavelength Laserdiode

Structure: **AlGaInP**, index guided single transverse mode

Lasing wavelength: **660 nm typ.**

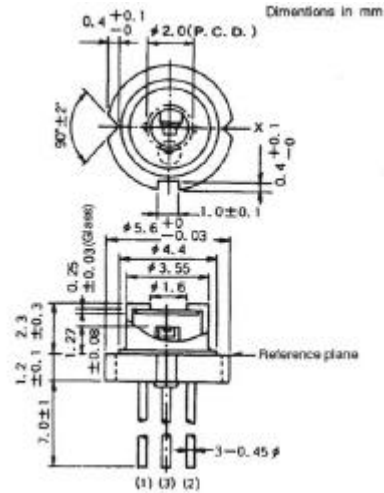
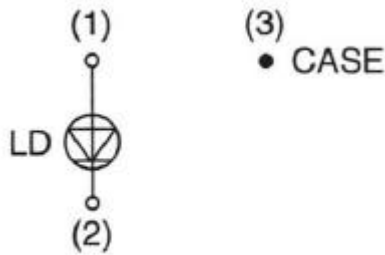
Output power: **50 mW, CW**

Package: **5.6 mm, TO-18**



NOTE!
LASERDIODE
MUST BE COOLED!

PIN CONNECTION:



Maximum Ratings (Tc=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Optical Output Power	P_o	60	mW
LD Reverse Voltage	$V_{R(LD)}$	2	V
Operation Case Temperature	T_c	-10 .. +60	°C
Storage Temperature	T_{STG}	-40 .. +100	°C

Optical-Electrical Characteristics (Tc = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	I_{th}	cw		50		mA
Operation Current	I_{op}	$P_o = 50$ mW		130		mA
Operating Voltage	V_{op}	$P_o = 50$ mW		2.7	3.0	V
Lasing Wavelength	λ_p	$P_o = 50$ mW	655	660	666	nm
Beam Divergence	$\theta_{//}$	$P_o = 50$ mW		9		°
Beam Divergence	θ_{\perp}	$P_o = 50$ mW		22		°
Slope Efficiency	η	$P_o = 50$ mW		0.7		mW/mA
Max. pulse power	P_{max}	Duty cycle < 50% Pulse width < 1 ms			70	mW