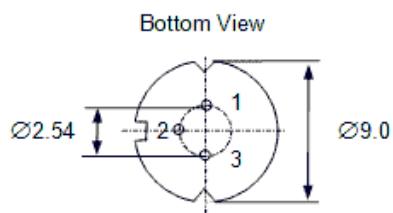
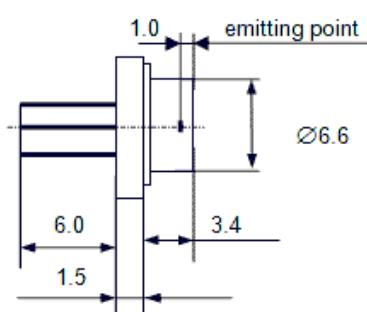
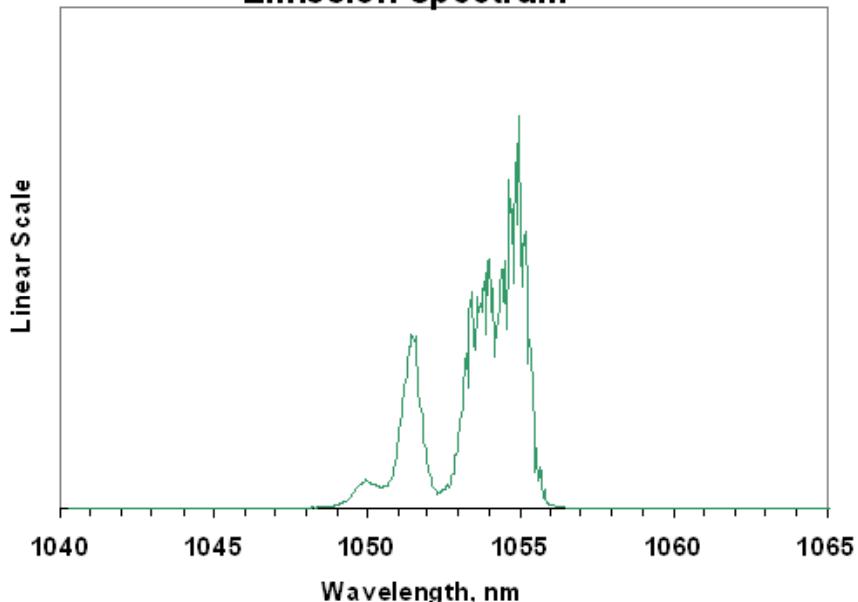


Single mode laser diode, 50mW @ 1060nm, QLD-1060-50S-AR

Optical and electrical characteristics (T = 25 °C)

Characteristics	Symbol	Min	Typ	Max	Unit
Optical output power	P _{out}		50	60	mW
Wavelength	λ	1055	1065	1075	nm
Emitting area	WxH		3x1.5		μm x μm
Threshold current	I _{th}	55	65	75	mA
Forward current	I _f		180	260	mA
Forward voltage	V _f		2.0	2.2	V
Beam Divergence	θ _L θ	perpendicular parallel	25 8	30 10	Degree
Static alignment	Δλ x Δω _L			<±3	Degree
Positional accuracy	ΔX, ΔY, ΔZ			±100	μm
Spectral width (FWHM)	Δλ	2.0	3.0	4.0	nm
Mode structure			Single Transverse Mode		
Differential Efficiency	DPe/dIop		0.3		mW / mA
Monitoring Output Current	I _m	0.07			mA

Emission Spectrum



Pin	Connection
1	LD Anode
2	LD Cathode, PD Anode
3	PD Cathode

