

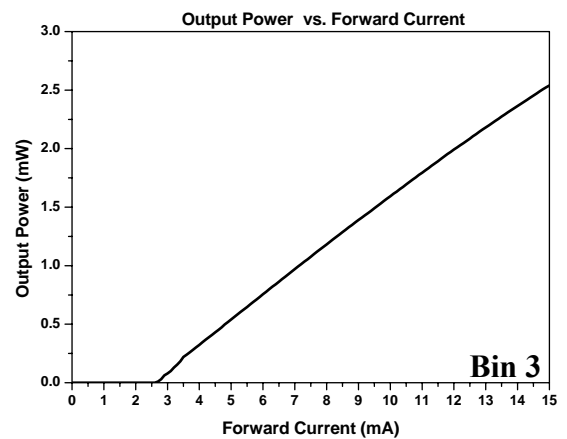
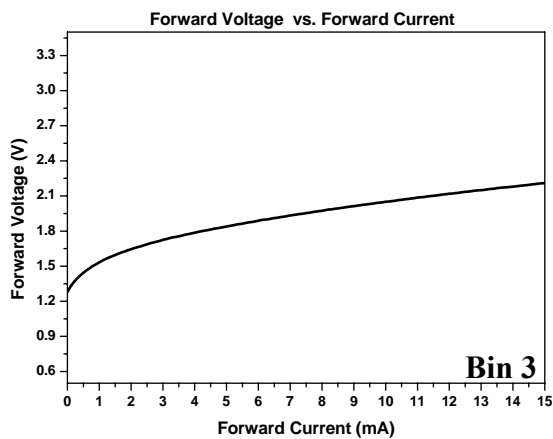
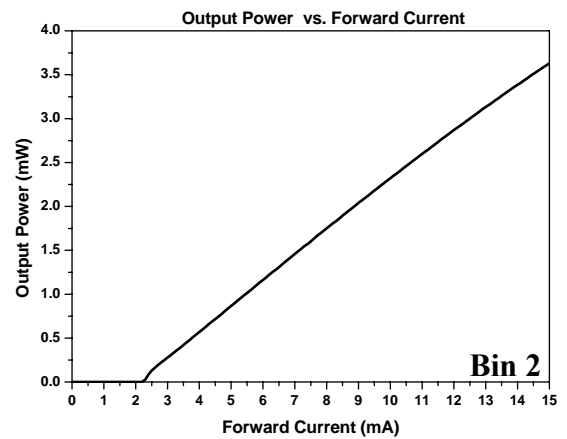
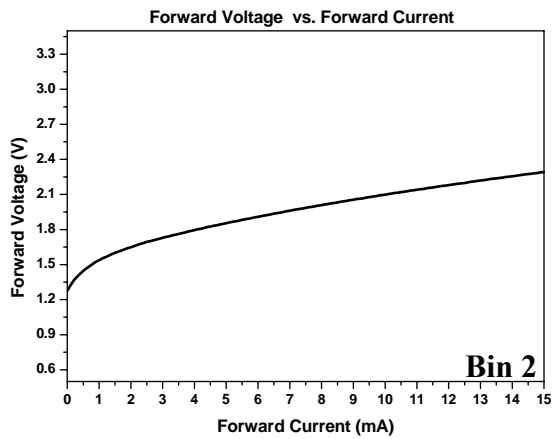
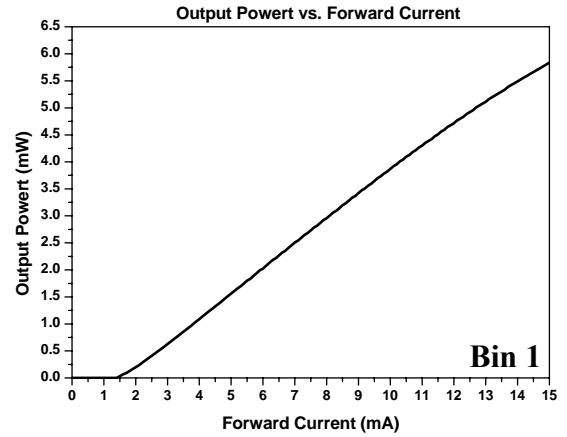
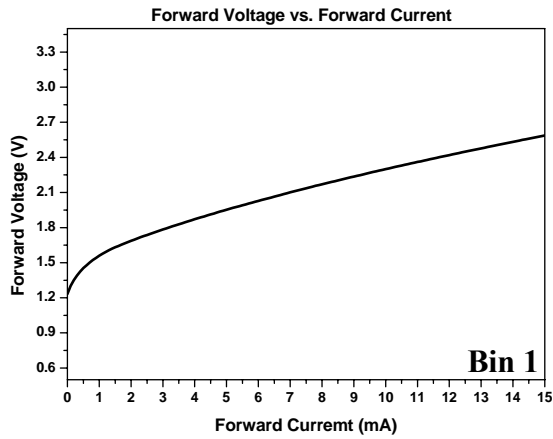
Absolute Maximum Ratings (T = 25 °C)

Parameter	Maximum Rating	Unit
Operating Temperature Range	-10 ~+80	°C
Storage Temperature Range	-20 ~+80	°C
Lead Soldering Temperature	260°C for 5 seconds	

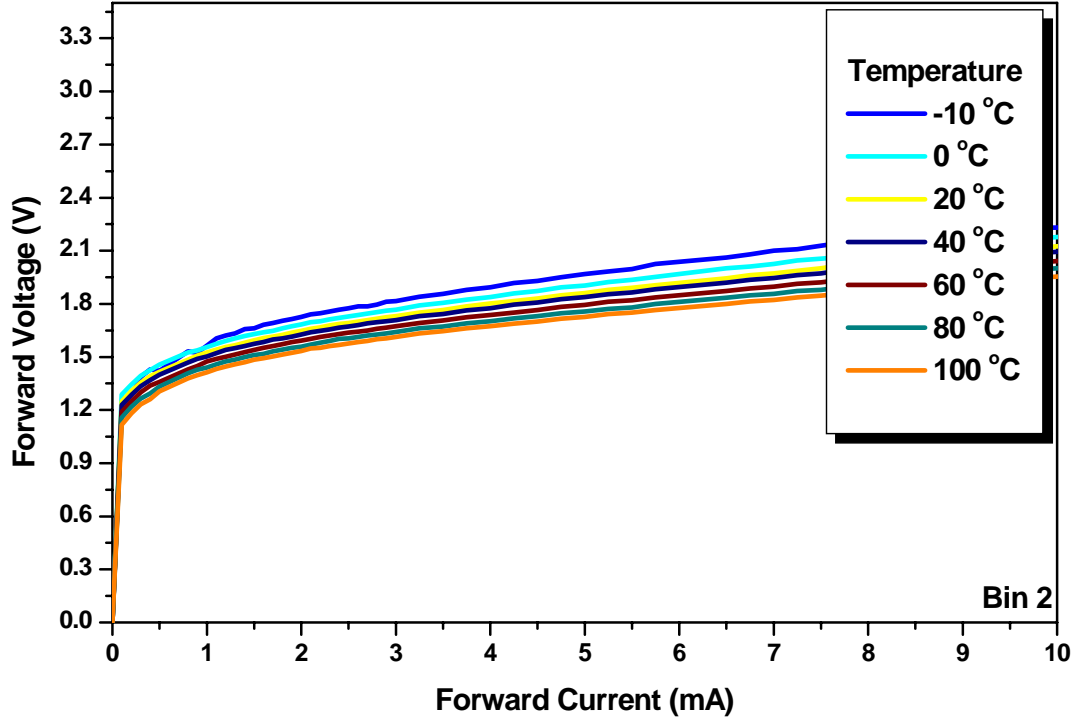
Electro-Optical Specifications (T = 25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Threshold Current	I_{th}	1.5	***	4	mA	*****
Operation Voltage	V_{op}	***	1.8	2.1	V	$P_{op} = 0.5mW$
Operation Current	I_{op}	2	***	3	mA	$P_{op} = 0.5mW$ (1)
		3	***	4		$P_{op} = 0.5mW$ (2)
		4	***	5		$P_{op} = 0.5mW$ (3)
Slope Efficiency (S.E.)	η	0.2	0.35	0.55	mW/mA	$P_{op} = 0.5 \sim 1.5mW$
Spectral Line Half Width	$\Delta\lambda$	***	***	0.9	nm	$P_{op} = 0.5mW$
Center Wavelength	λ_c	830	850	860	nm	$P_{op} = 0.5mW$
Beam Divergence	2θ	***	5	***	deg.	$P_{op} = 0.5mW$

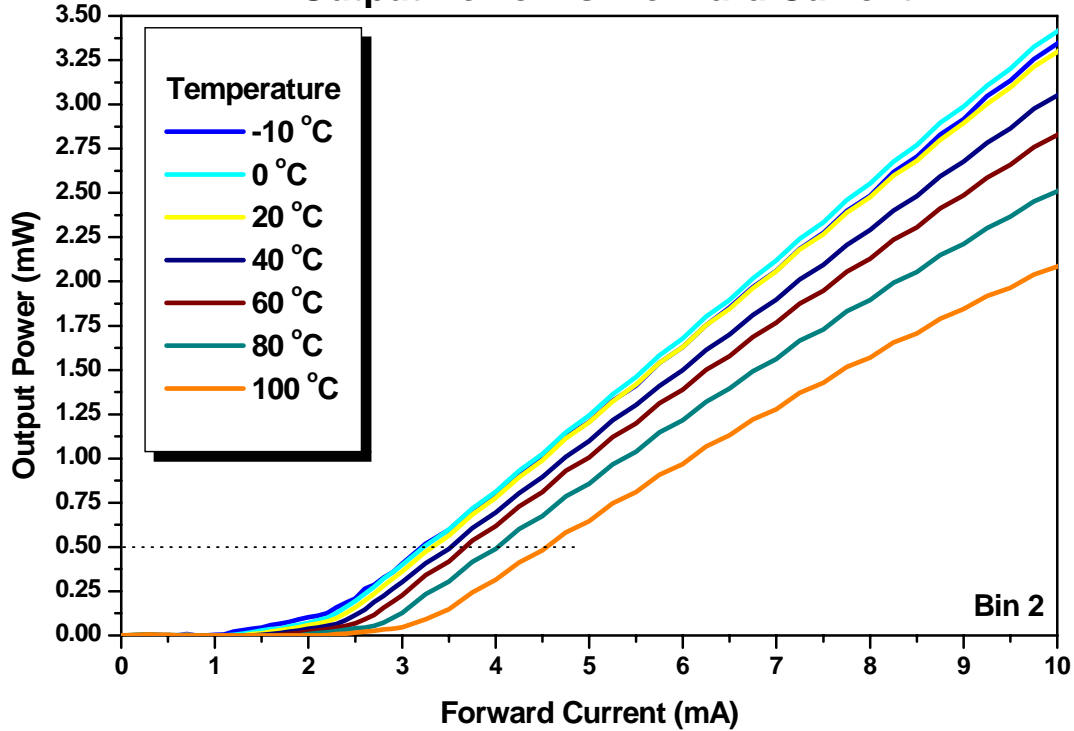
Electro-Optical Characteristics Curves (25 °C)



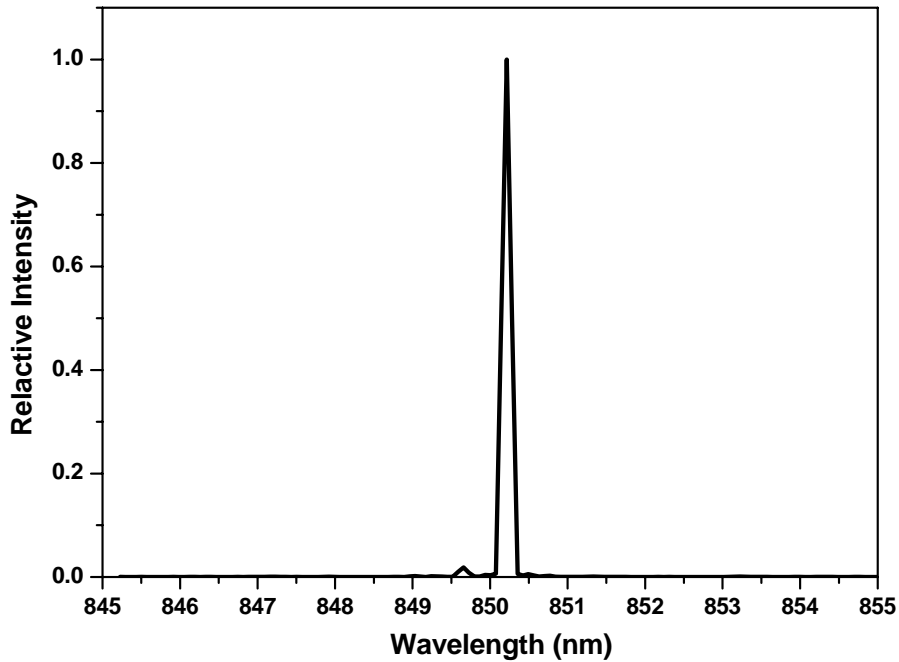
Forward Voltage vs. Forward Current



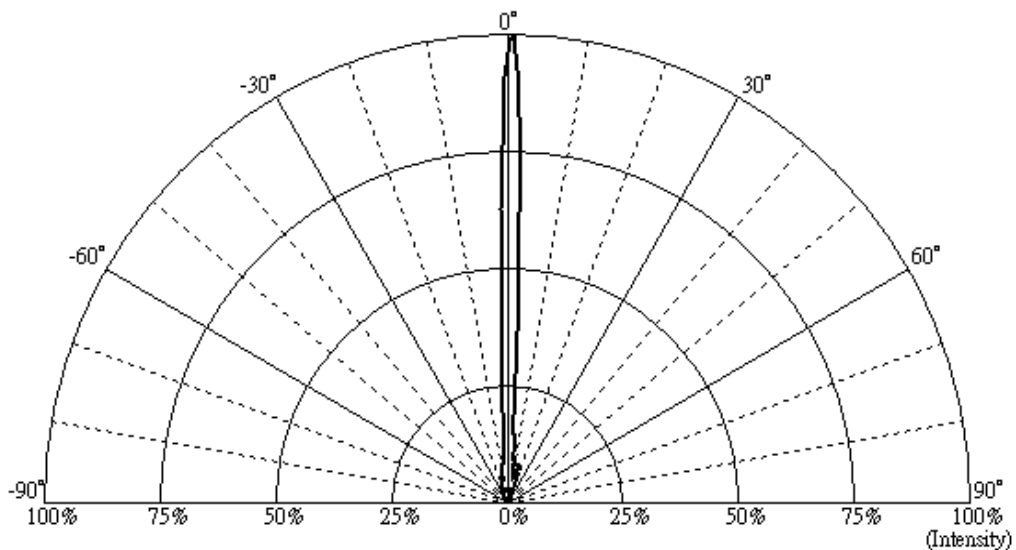
Output Power vs. Forward Current



Emission Wavelength (RT - 4mA)



Angular Displacement (RT - 4mA)



$2\theta = 5 \text{ deg.}$