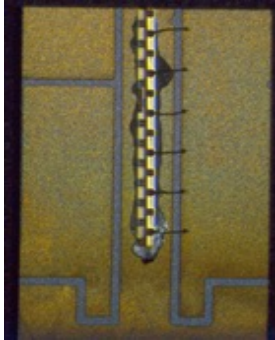
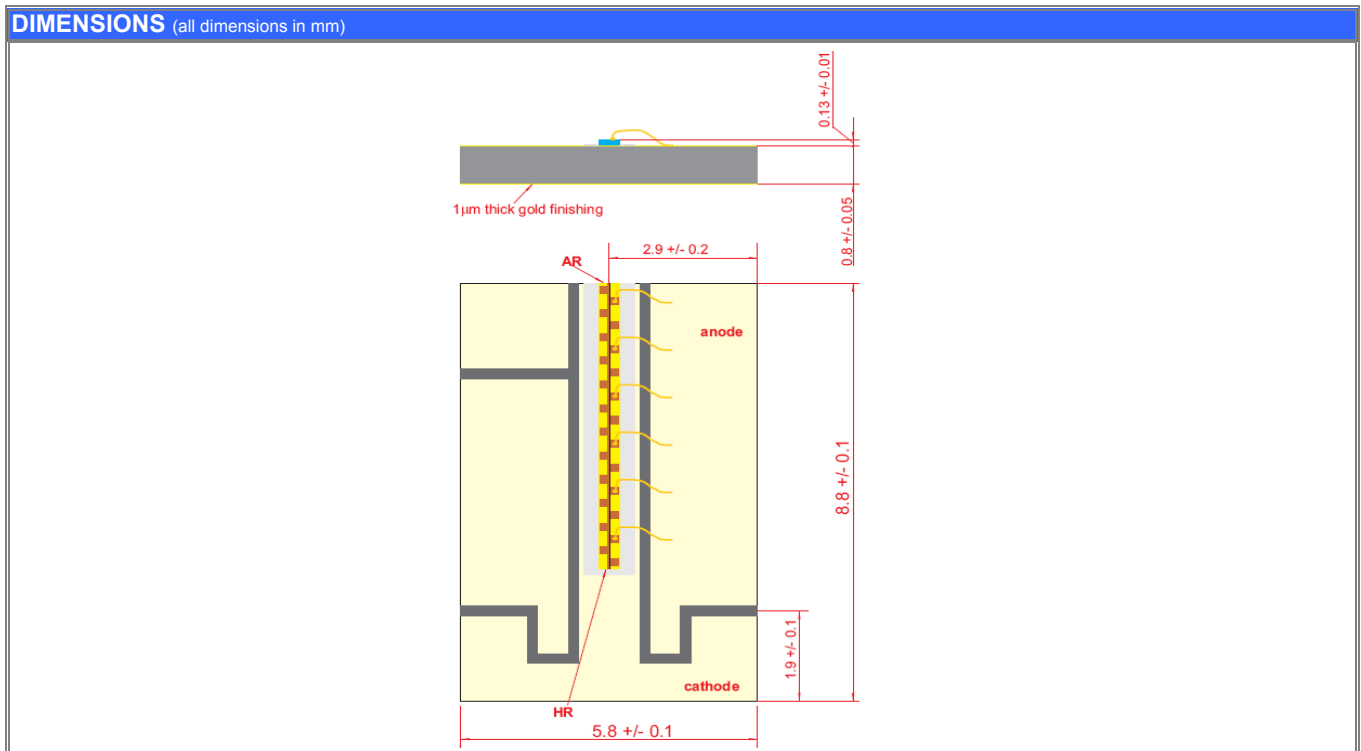


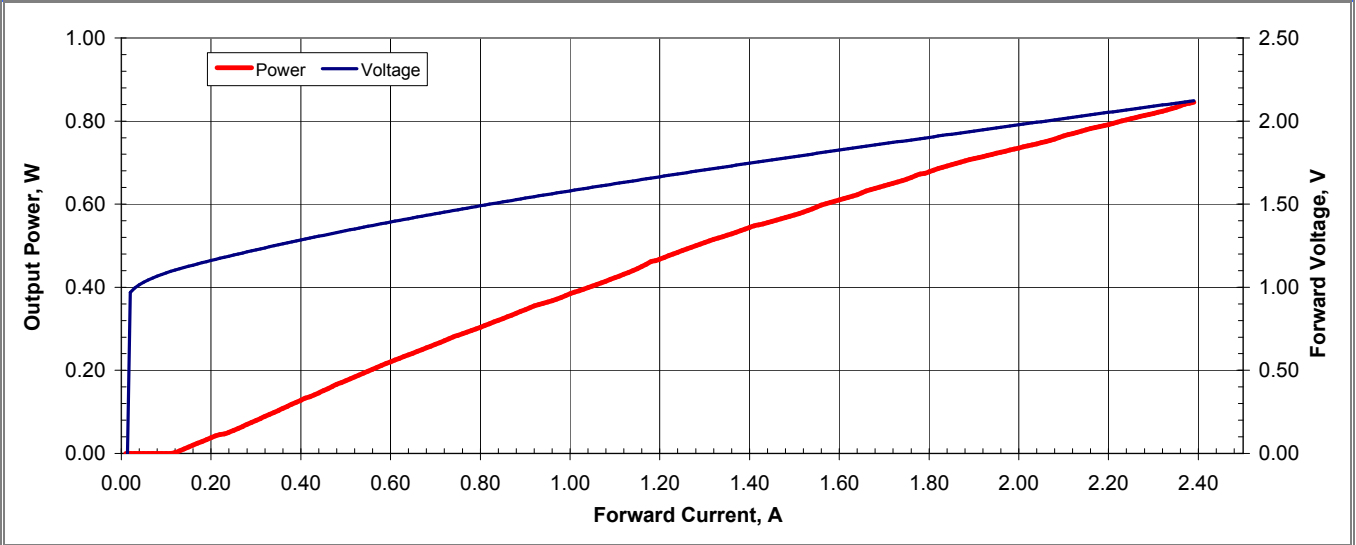
LD-1240-SM-600			
High Power Diode Laser – 600 mW @ 1240 nm			
	<p><b>Features:</b></p> <ul style="list-style-type: none"> <li>▪ InAs/GaAs Quantum Dot based diode laser</li> <li>▪ Unique wavelength</li> <li>▪ Optimised for operation in external cavity design, 0.5% AR coated output facet</li> <li>▪ AlN high thermal conductive carrier</li> <li>▪ Optional: integrated thermistor for temperature control</li> </ul> <p><b>Applications:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Red laser</b>, via direct frequency conversion</li> <li>▪ Medical</li> </ul>		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; text-align: center; padding: 2px;"> <b>PRELIMINARY Specification</b> for engineering samples                             </td> <td style="width: 40%; text-align: center; padding: 2px;">                                 DATE: 13th June 2007                             </td> </tr> </table>		<b>PRELIMINARY Specification</b> for engineering samples	DATE: 13th June 2007
<b>PRELIMINARY Specification</b> for engineering samples	DATE: 13th June 2007		

SPECIFICATIONS				
Test conditions: CW operation, carrier is clamped to the 25°C-cooled heatsink without thermal greasing (actual carrier temperature might exceed 50°C)				
Parameters	Min.	Typ.	Max.	Unit
Optical output power	600			mW
Central wavelength	1230	1240	1250	nm
Wavelength temperature tunability		0.5		nm/K
Spectral width (FWHM)	4	8	12	nm
Operating current	1400	1600	1800	mA
Threshold current	80	120	160	mA
Slope efficiency	0.4	0.45	0.55	W/A
Forward voltage	1.6	1.8	2	V
Divergence perpendicular to p-n junction (FWHM)		50	53	Deg.
Laser diode cavity length		6		mm
Laser diode stripe width		7		um



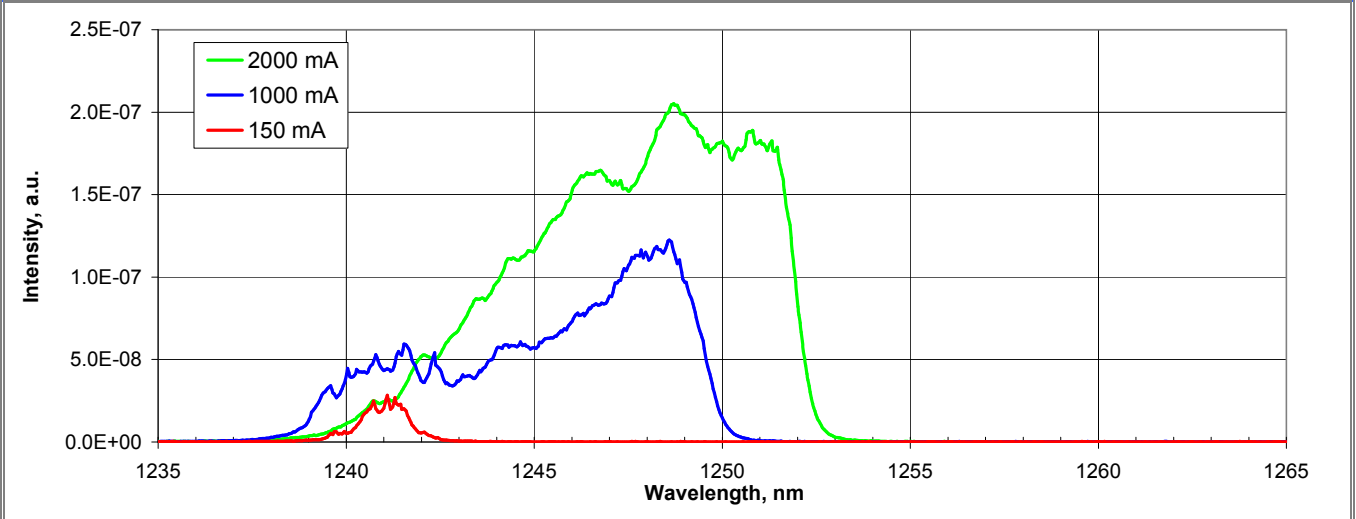
## TYPICAL L-I-V CURVE

Test conditions: CW operation, carrier is clamped to the 25°C-cooled heatsink without thermal greasing (actual carrier temperature might exceed 50°C)



## TYPICAL LASER DIODE SPECTRUM

Test conditions: CW operation, carrier is clamped to the 25°C-cooled heatsink without thermal greasing (actual carrier temperature might exceed 50°C)



## TYPICAL LASER DIODE SLOW AXIS FAR FIELD PATTERN

Test conditions: CW operation, carrier is clamped to the 25°C-cooled heatsink without thermal greasing (actual carrier temperature might exceed 50°C)

