

Pigtailed Laser Diodes

SIMTRUM offers an extensive selection of pigtailed laser diodes. Our TO-packaged are standard Ø3.8 mm to Ø5.6 mm, with wavelengths from 405 nm to 1550 nm, FC/PC or FC/APC Connector. Each unit is tested prior to shipment for maximum coupling efficiency.

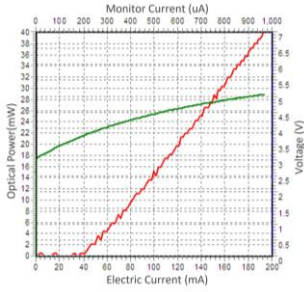


Characteristics

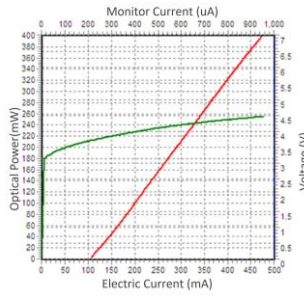
- Visible to IR wavelengths
- FC/PC or FC/APC Connector
- Single mode and multi mode

Model		405nm	405nm	520nm	635/ 640nm	640nm	660nm	780nm	1060/ 1064nm	DFB 1550nm
Wavelength (nm)		405	405	520	635/640	640	660	780	1060	1550
Light Output (mW)	CW	30	400	10	10	40	40	50	10	10
	Pulse	40	450	15	12	45	45	60	15	15
Push Width		0.1µs, Duty50%								
Mode		Single Mode	Multi Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode
LD/PD		LD	LD	LD & PD	LD & PD	LD	LD	LD & PD	LD & PD	LD & PD
Fiber Connector		FC/PC FC/APC								
Reverse Voltage		2V								
Package		TO38	TO56	TO56	TO38	TO38	TO56	TO56	TO56	TO56
Threshold Current (mA)	Min	35	100	25	-	35	40	25	10	10
	Typ	40	120	30	45	45	45	30	15	15
	Max	50	140	40	55	50	50	40	20	20
Operating Current (mA)	Min	180	450	90	90	110	100	100	60	70
	Typ	190	500	100	100	120	110	110	80	75
	Max	210	550	110	110	130	120	130	100	80
Operating Voltage (V)	Min	-	-	6	-	-	-	1.8	-	-
	Typ	5	4.5	6.5	0.15	2.3	2.5	2	1.7	1.3
	Max	5.5	5	7	0.2	3	3	2.2	1.8	1.5
Slope Efficiency (mW/mA)	Min	-	0.9	-	-	-	-	-	-	-
	Typ	0.2	1	0.15	0.15	0.55	0.6	0.6	0.15	0.14
	Max	0.25	1.1	-	0.2	0.6	0.65	0.65	0.2	0.18
Lasing Wavelength (nm)	Min	400	400	400	635	637	655	775	1050	1545
	Typ	405	405	405	640	640	660	780	1060	1550
	Max	410	410	410	645	645	670	785	1070	1560
Core Dimaeter (µm)		3/125	105/125	3/125	4/125	4/125	4/125	5.5/125	9/125	9
Core NA		0.13	0.22	0.13	0.13	0.13	0.13	0.13	0.12	0.12
Operating Temperature		-10 to +70°C	-10 to +50°C	-10 to +70°C	-10 to +70°C	-10 to +70°C	-10 to +70°C	-10 to +70°C	-10 to +70°C	-10 to +70°C
Storage Temperature		-40 to +80°C								
Test Temperature		25°C								
Test Conditions (mW)		P _o =30	P _o =400	P _o =10	P _o =10	P _o =40	P _o =40	P _o =50	P _o =10	P _o =10

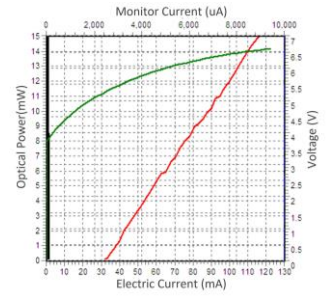
LIV Curve



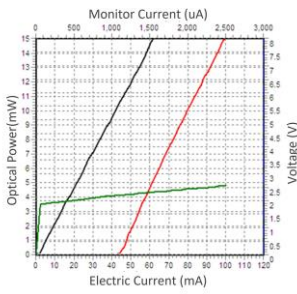
405nm 30mW



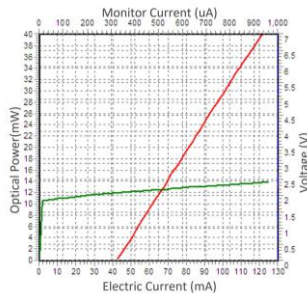
405nm 400mW



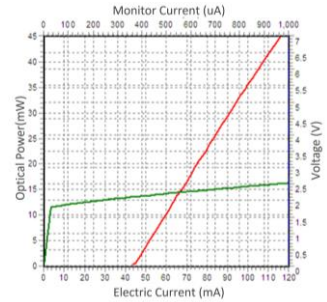
520nm 10mW



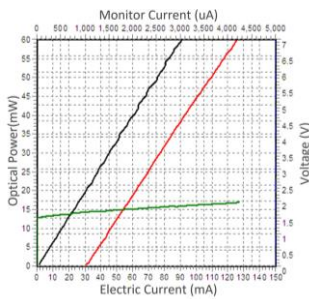
635-640nm 10mW



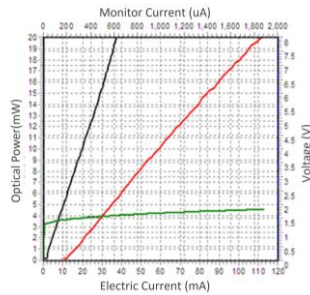
640nm 40mW



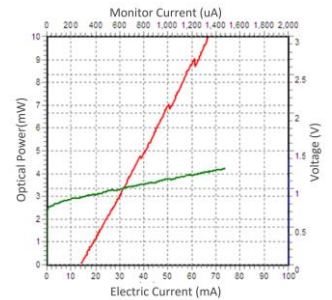
660nm 40mW



780nm 50mW



1060/1064nm 10mW



1550nm 10mW