

DL-3148-013

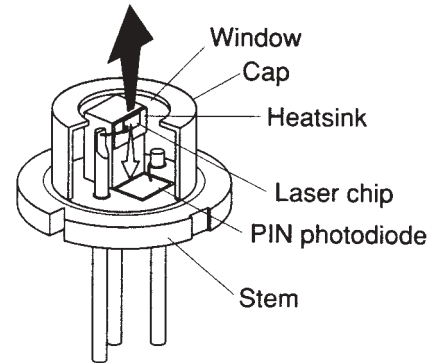
Wellenlänge: 635nm (typ.)
 Geringer Schwellstrom: 45mA (typ.)
 Max. Ausgangsleistung: 7mW
 Niedrige Betriebsspannung: 2,2V typ.



Anwendungsgebiete:
 Laserpointer
 Laserwasserwaagen

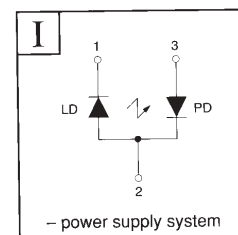
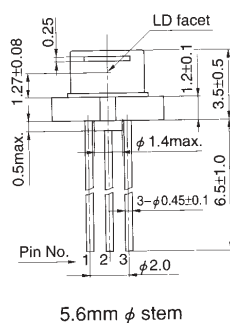
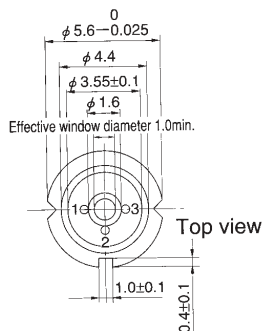
Maximalwerte

Parameter		Symbol	Wert	Einheit
Ausgangsleistung	CW	Po	7	mW
	Laser	VR	2	V
Sperrspannung	Laser	VR	2	V
	PIN	VR	30	V
Betriebstemperatur		Topr	-10...+40	°C
Lagertemperatur		Tstr	-40...+85	°C



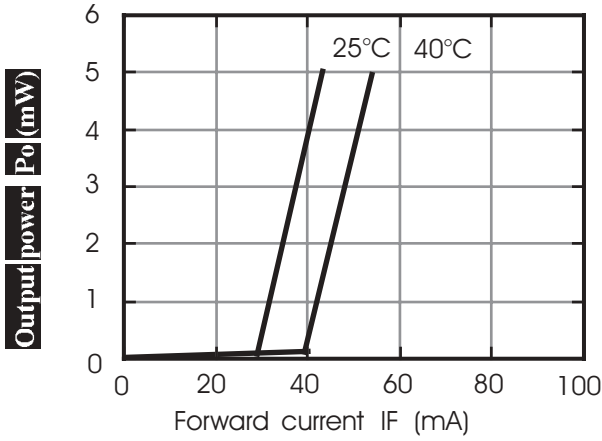
Elektrische und optische Eigenschaften bei 25°C

Parameter		Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit
Schwellstrom		I _{th}	CW	---	30	45	mA
Betriebsstrom		I _{op}	Po=5mW	---	45	60	mA
Betriebsspannung		V _{op}	Po=5mW	---	2,2	2,5	V
Wellenlänge			Po=5mW	---	635	643	nm
Strahl- divergenz	Senkrecht	⊥	---	25	30	35	deg.
	Parallel		---	6	8	10	deg.
Strahl- abweichung	Senkrecht	⊥	---	---	---	+/-3	deg.
	Parallel		---	---	---	+/-3	deg.
Differentieller Wirkungsgrad		dPo/dI _{op}	Po=5mW	0,2	0,35	0,6	mW/mA
Monitordiodenstrom		I _m	Po=5mW	0,08	0,2	0,4	mA
Astigmatismus		As	Po=5mW	---	8	---	µm

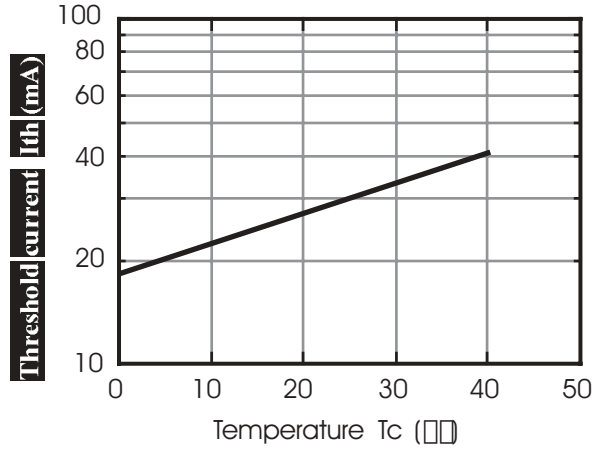


Characteristics

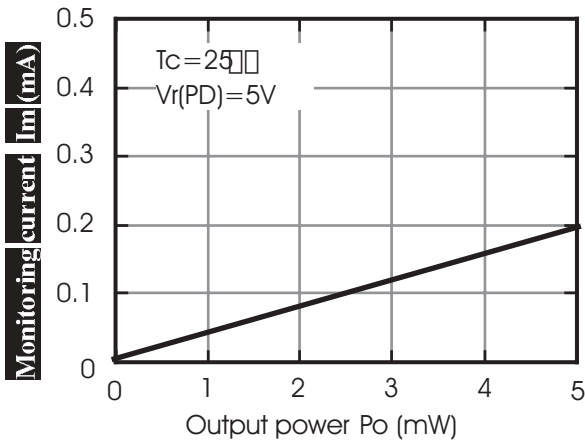
Output power vs. Forward current



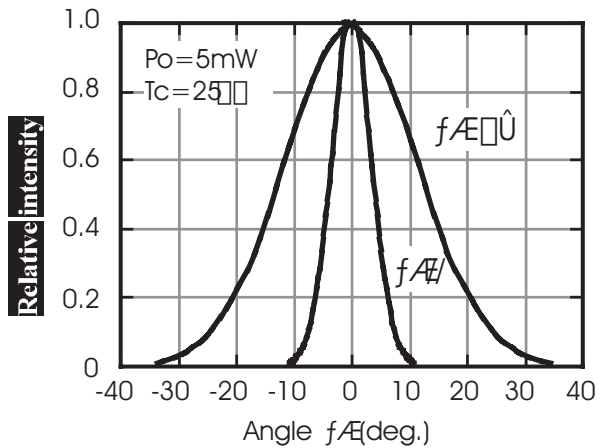
Threshold current vs. Temperature



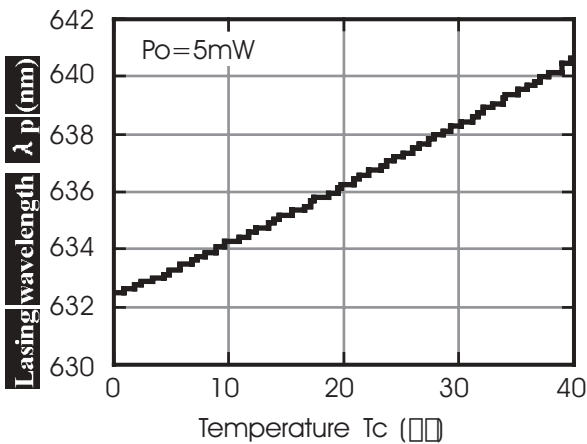
Monitoring current vs. Output power



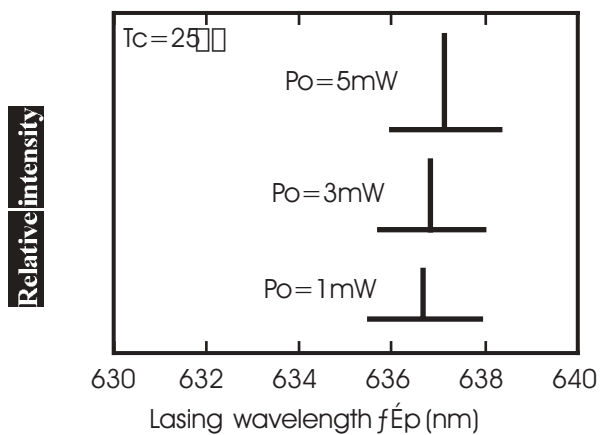
Beamdivergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power



This is typical data and it may not represent all products.