

DL-4147-162

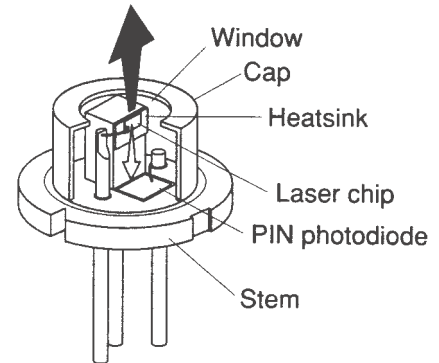
Wellenlänge: 650nm (typ.)
 Geringer Schwellstrom: 45mA (typ.)
 Max. Ausgangsleistung: 12mW
 Hohe Betriebstemperatur: +70°C



Anwendungsgebiete:
 DVD-ROM
 DVD-RAM-Reading
 Bar-code scanner

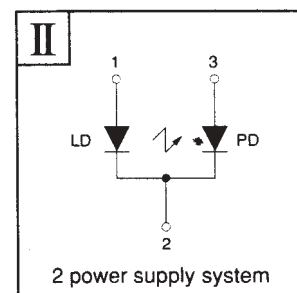
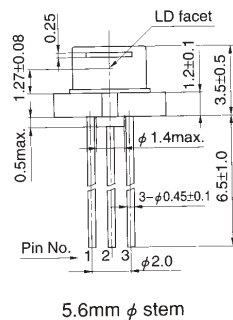
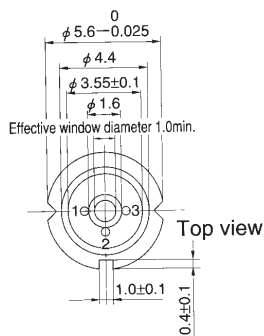
Maximalwerte

Parameter		Symbol	Wert	Einheit
Ausgangsleistung	CW	Po	12	mW
	Laser	VR	2	V
Sperrspannung	Laser	VR	2	V
	PIN	VR	30	V
Betriebstemperatur		Topr	-10...+70	°C
Lagertemperatur		Tstr	-40...+85	°C



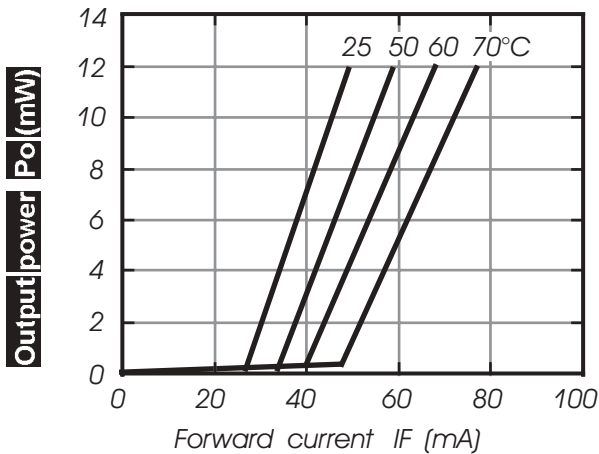
Elektrische und optische Eigenschaften bei 25°C

Parameter	Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit	
Schwellstrom	I _{th}	CW	---	30	50	mA	
Betriebsstrom	I _{op}	Po=10mW	---	50	70	mA	
Betriebsspannung	V _{op}	Po=10mW	---	2,3	2,6	V	
Wellenlänge		Po=10mW	---	650	660	nm	
Strahl- divergenz	Senkrecht	⊥	---	23	30	35	deg.
	Parallel		---	7	8	10	deg.
Strahl- abweichung	Senkrecht	⊥	---	---	+/-3	deg.	
	Parallel		---	---	+/-2	deg.	
Differentieller Wirkungsgrad	dPo/dI _{op}	Po=10mW	0,2	0,5	0,8	mW/mA	
Monitordiodenstrom	I _m	Po=10mW	0,1	0,3	0,5	mA	
Astigmatismus	As	Po=10mW	---	8	---	µm	
Differential Resistance	R _s	Po=10mW	---	9	---	Ohm	

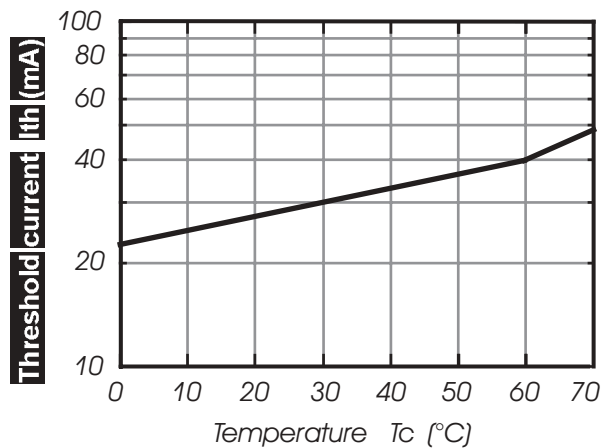


Characteristics

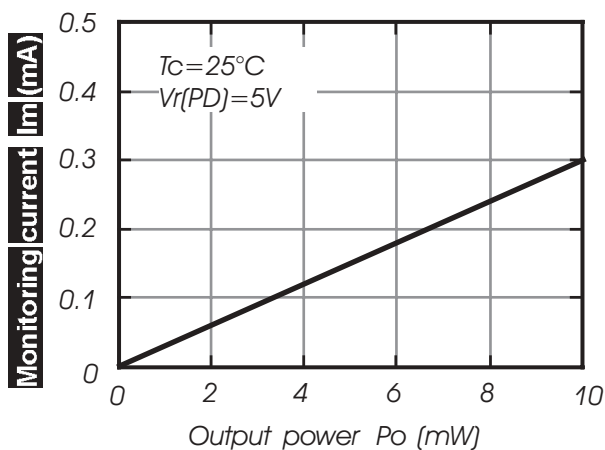
Output power vs. Forward current



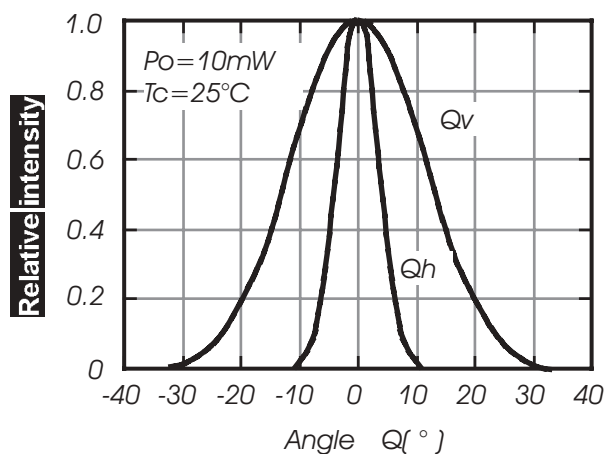
Threshold current vs. Temperature



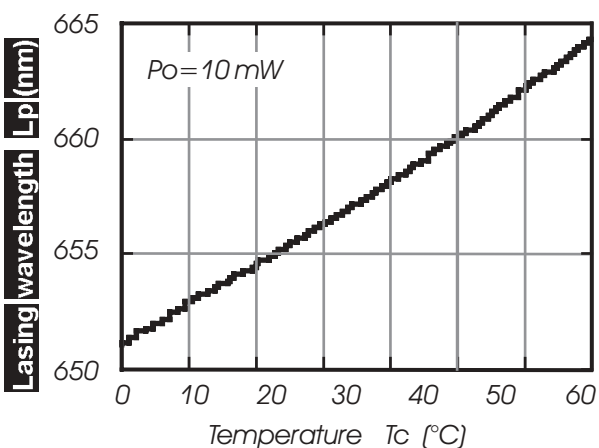
Monitoring current vs. Output power



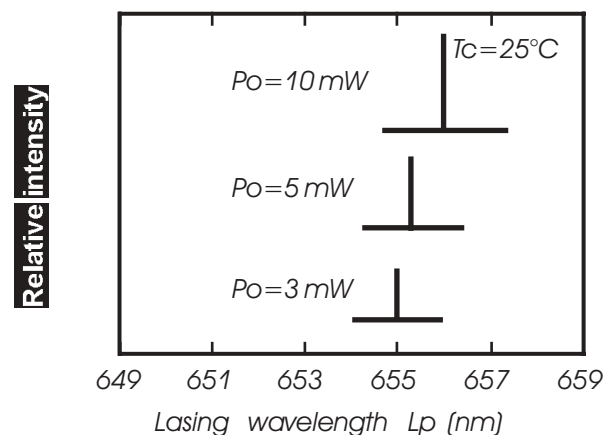
Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power



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