

## DL-3147-031

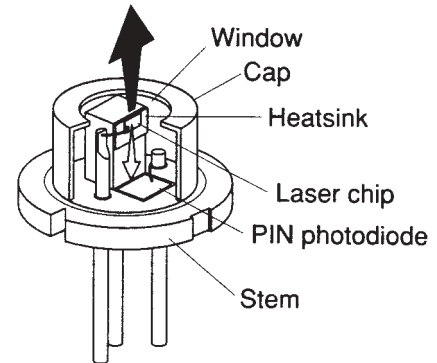
Wellenlänge: 650nm (typ.)  
 Geringer Schwellstrom: 25mA (typ.)  
 Max. Ausgangsleistung: 7mW  
 TE mode



Anwendungsgebiete:  
 DVD-ROM  
 DVD-RAM-Reading

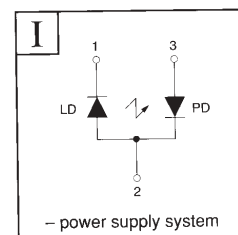
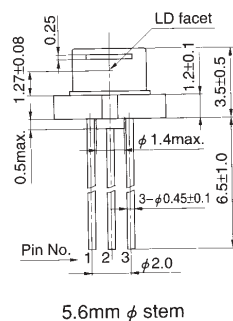
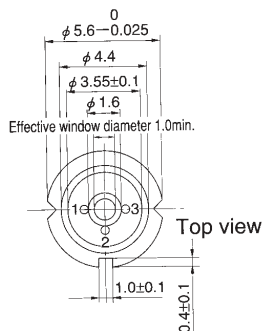
### Maximalwerte

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...+60	°C
Lagertemperatur		Tstr	-40...+85	°C



### Elektrische und optische Eigenschaften bei 25°C

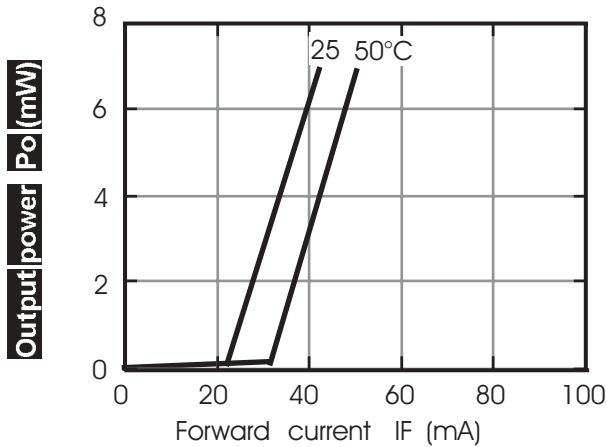
Parameter		Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit
Schwellstrom		I <sub>th</sub>	CW	---	25	40	mA
Betriebsstrom		I <sub>op</sub>	Po=5mW	---	30	50	mA
Betriebsspannung		V <sub>op</sub>	Po=5mW	---	2,3	2,6	V
Wellenlänge			Po=5mW	645	650	660	nm
Strahl- divergenz	Senkrecht	⊥	---	25	30	35	deg.
	Parallel		---	7	8	10	deg.
Strahl- abweichung	Senkrecht	⊥	---	---	---	+/-3	deg.
	Parallel		---	---	---	+/-2	deg.
Differentieller Wirkungsgrad		dPo/dI <sub>op</sub>	Po=5mW	0,3	0,5	0,8	mW/mA
Monitordiodenstrom		I <sub>m</sub>	Po=5mW	0,1	0,2	0,4	mA
Astigmatismus		As	Po=5mW	---	8	---	µm



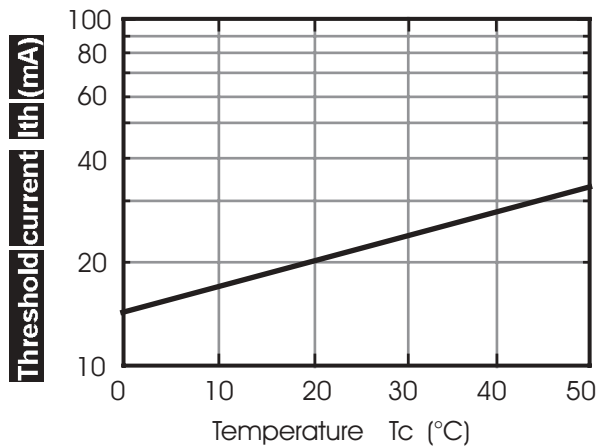
# DL-3147-031

## Characteristics

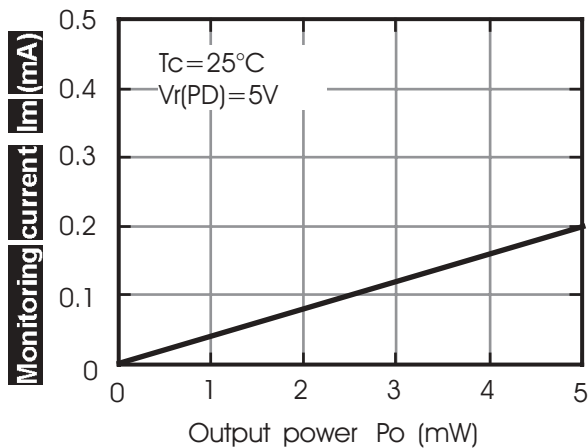
Output power vs. Forward current



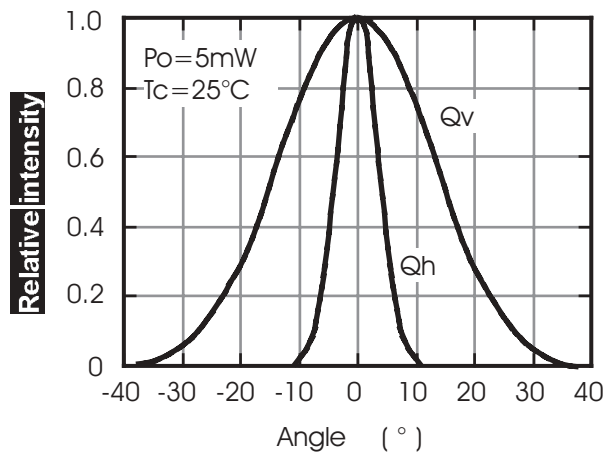
Threshold current vs. Temperature



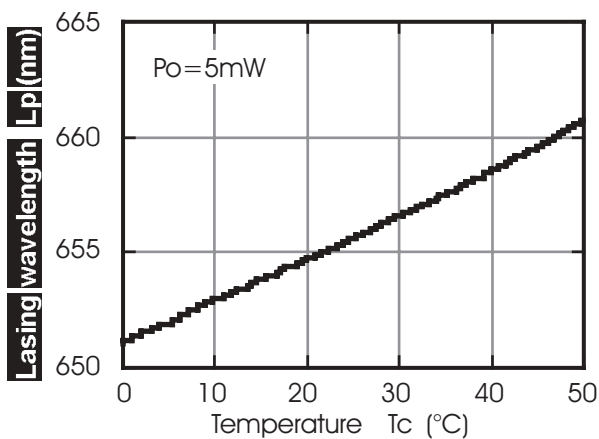
Monitoring current vs. Output power



Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power

