

## DL-3147-285

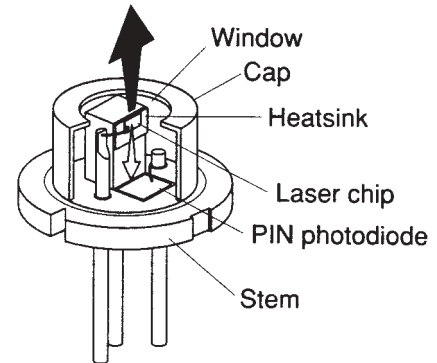
Wellenlänge: 650nm (typ.)  
 Geringer Schwellstrom: 25mA (typ.)  
 Max. Ausgangsleistung: 7mW  
 Hohe Betriebstemperatur: +80°C



Anwendungsgebiete:  
 DVD-ROM  
 DVD-RAM-Reading

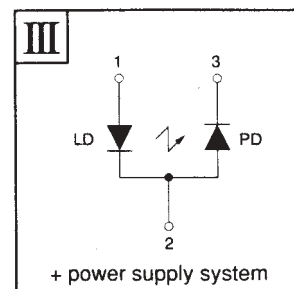
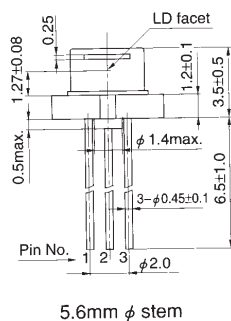
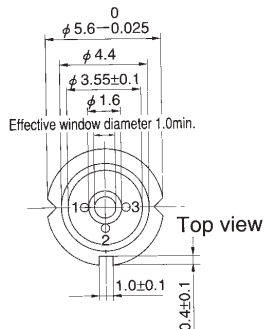
### Maximalwerte

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...+80	°C
Lagertemperatur		Tstr	-40...+85	°C



### Elektrische und optische Eigenschaften bei 25°C

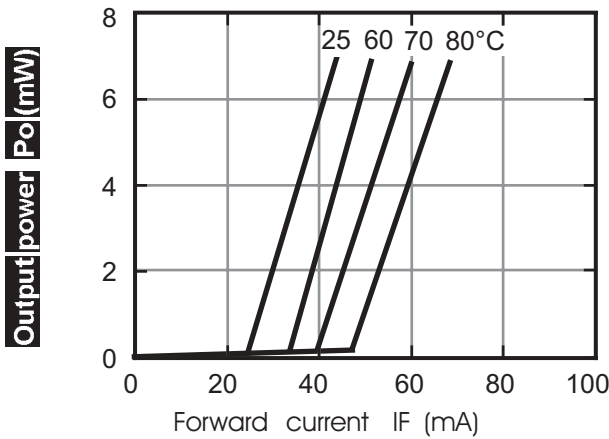
Parameter		Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit
Schwellstrom		I <sub>th</sub>	CW	---	25	40	mA
Betriebsstrom		I <sub>op</sub>	Po=5mW	---	35	50	mA
Betriebsspannung		V <sub>op</sub>	Po=5mW	---	2,3	2,6	V
Wellenlänge			Po=5mW	645	650	660	nm
Strahl- divergenz	Senkrecht	⊥	---	25	30	35	deg.
	Parallel		---	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	0,05	0,20	0,5	mA
Astigmatismus		As	Po=5mW	---	8	---	µm



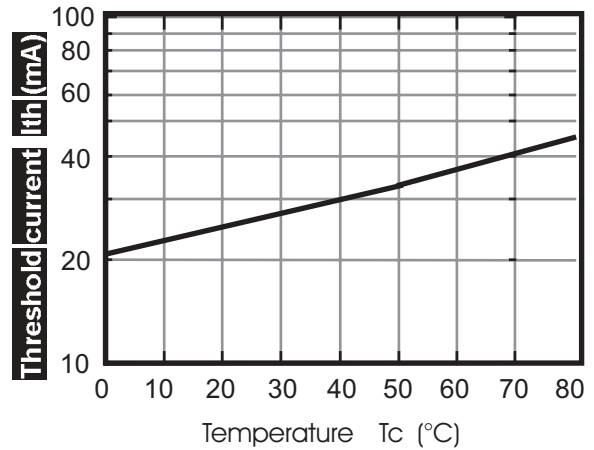
# DL-3147-285

## Characteristics

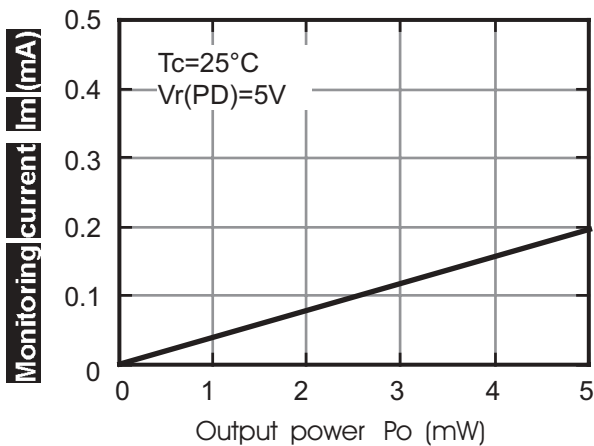
Output power vs. Forward current



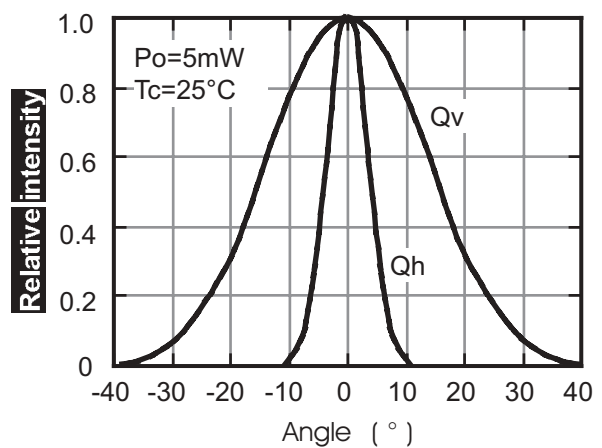
Threshold current vs. Temperature



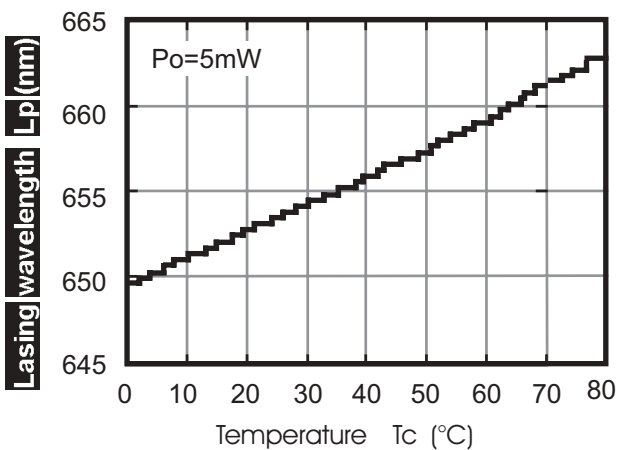
Monitoring current vs. Output power



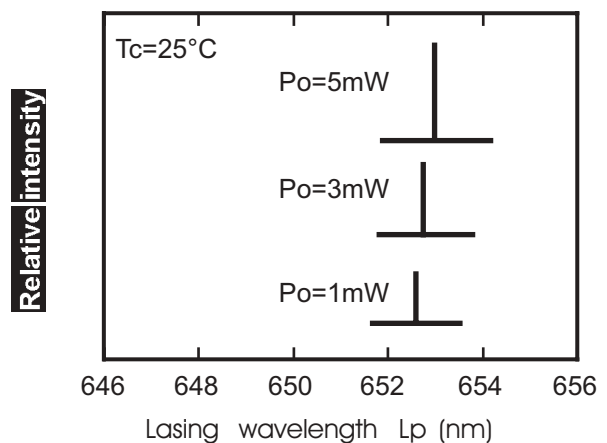
Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power



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

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