

DL-7032-001

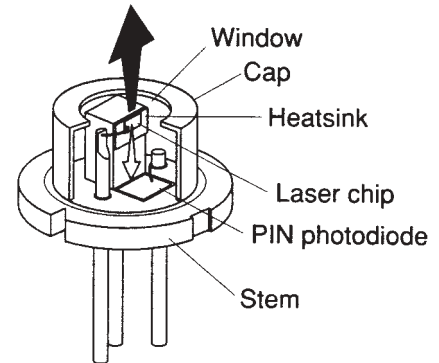
Wellenlänge: 830nm (typ.)
 Geringer Schwellstrom: 40mA (typ.)
 Max. Ausgangsleistung: 100mW



Anwendungsgebiete:
 Optische Kommunikation
 Analytische Meßgeräte
 Medizinische Anwendungen

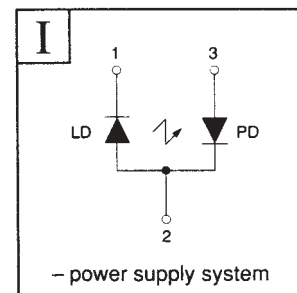
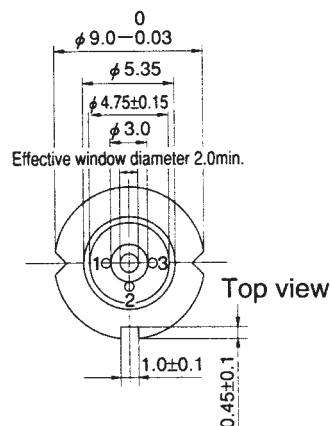
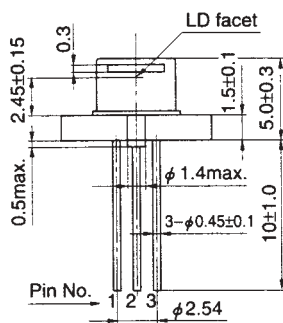
Maximalwerte

Parameter		Symbol	Wert	Einheit
Ausgangsleistung	CW	Po	100	mW
	Laser	VR	2	V
Sperrspannung	Laser	VR	2	V
	PIN	VR	30	V
Betriebstemperatur		Topr	-10...+50	°C
Lagertemperatur		Tstr	-40...+85	°C



Elektrische und optische Eigenschaften bei 25°C

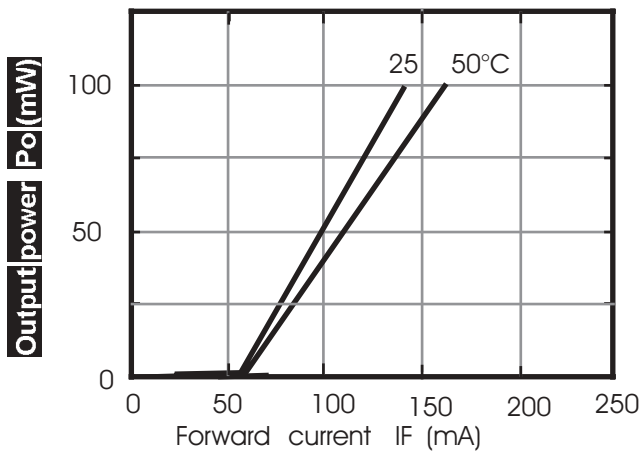
Parameter	Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit	
Schwellstrom	I _{th}	CW	---	40	60	mA	
Betriebsstrom	I _{op}	Po=100mW	---	150	200	mA	
Wellenlänge		Po=100mW	810	830	850	nm	
Strahldivergenz	Senkrecht	⊥	---	12	18	25	deg.
	Parallel		---	5	7	10	deg.
Strahlabweichung	Senkrecht	⊥	---	---	+/-3	deg.	
	Parallel		---	---	+/-3	deg.	
Differentieller Wirkungsgrad	dPo/dI _{op}	Po=100mW	0,4	1,0	---	mW/mA	
Monitordiodenstrom	I _m	Po=100mW	0,1	0,5	---	mA	



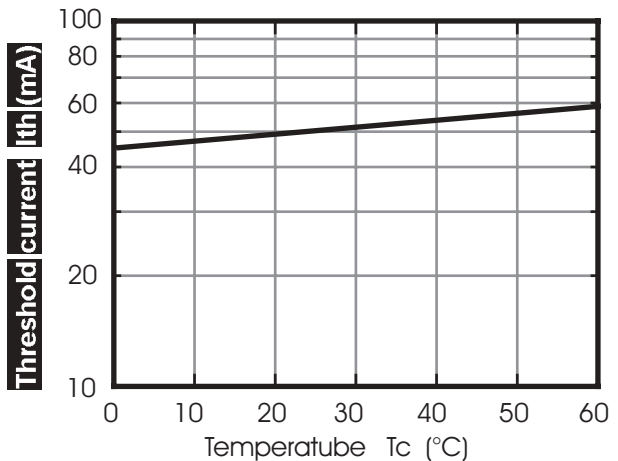
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Characteristics

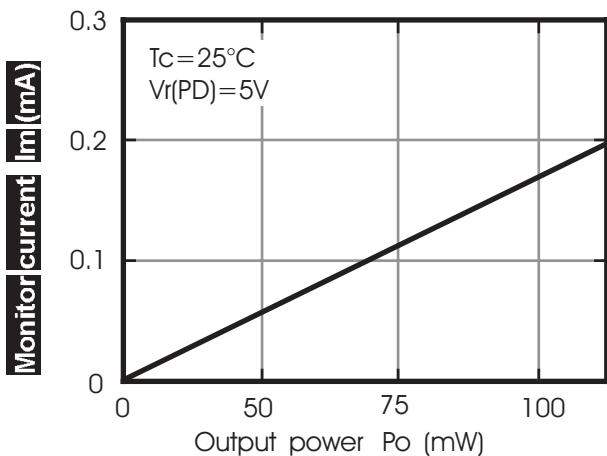
Output power vs. Forward current



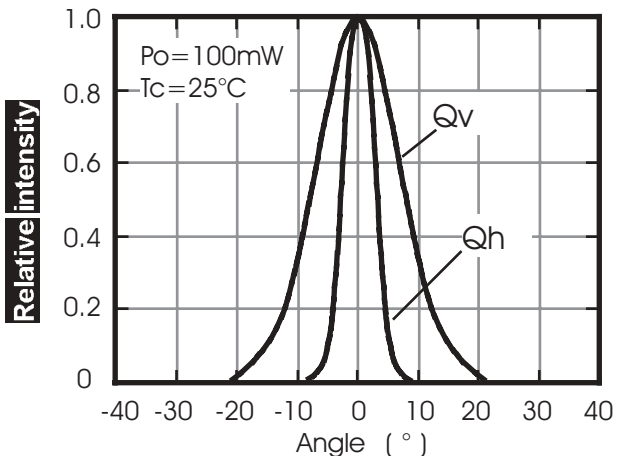
Threshold current vs. Temperature



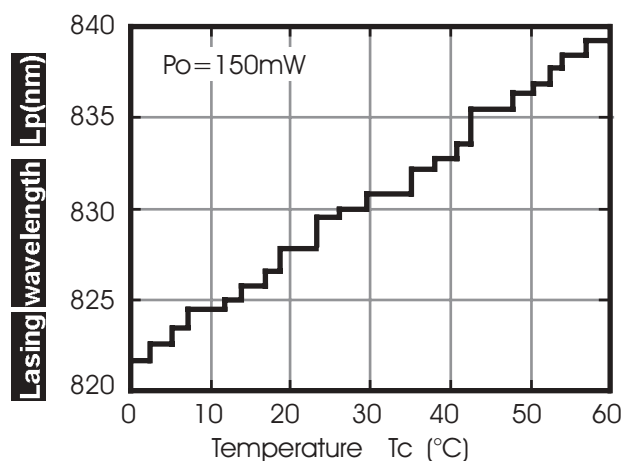
Monitor current vs. Output power



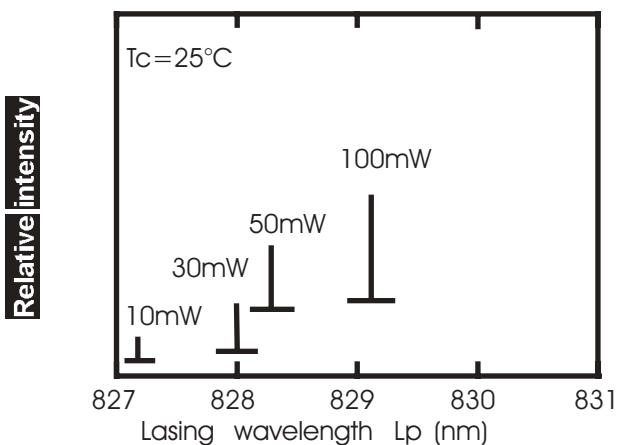
Beam divergence



Lasing wavelength vs. Temperature



Output power vs. Lasing wavelength



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

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