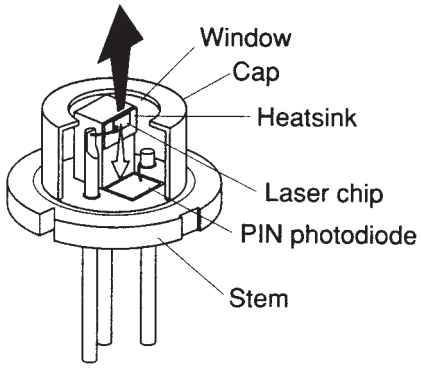
DL-3038-034

Wellenlänge: 635nm (typ.)
Geringer Schwellstrom: 40mA (typ.)
Niedrige Betriebsspannung: 2,2V typ.

Anwendungsgebiete:

Laserpointer
Laserwasserwaagen

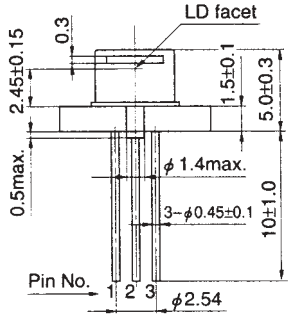


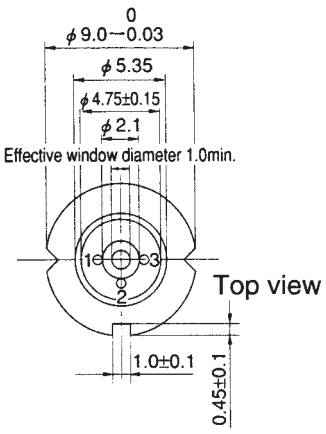
Maximalwerte

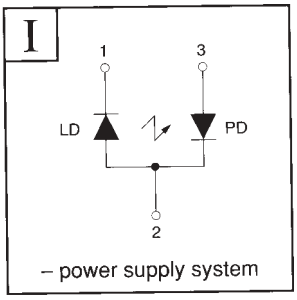
Parameter		Symbol	Wert	Einheit
Ausgangs-leistung	CW	Po	5	mW
Sperr-spannung	Laser	VR	2	V
	PIN	VR	30	V
Betriebstemperatur		Topr	-10...+50	°C
Lagertemperatur		Tstr	-40...+85	°C

Elektrische und optische Eigenschaften bei 25°C

Parameter		Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit
Schwellstrom		Ith	CW	---	30	50	mA
Betriebsstrom		Iop	Po=5mW	---	40	60	mA
Betriebsspannung		Vop	Po=5mW	---	2,2	2,4	V
Wellenlänge			Po=5mW	---	635	645	nm
Strahl-divergenz	Senkrecht	⊥	---	25	30	35	deg.
	Parallel	∥	---	6	8	10	deg.
Strahl-abweichung	Senkrecht	⊥	---	---	---	+/-3	deg.
	Parallel	∥	---	---	---	+/-3	deg.
Differentieller Wirkungsgrad		dPo/dIop	Po=5mW	---	0,4	---	mW/mA
Monitordiodenstrom		Im	Po=5mW	0,15	0,3	0,65	mA
Astigmatismus		As	Po=5mW	---	8	---	µm







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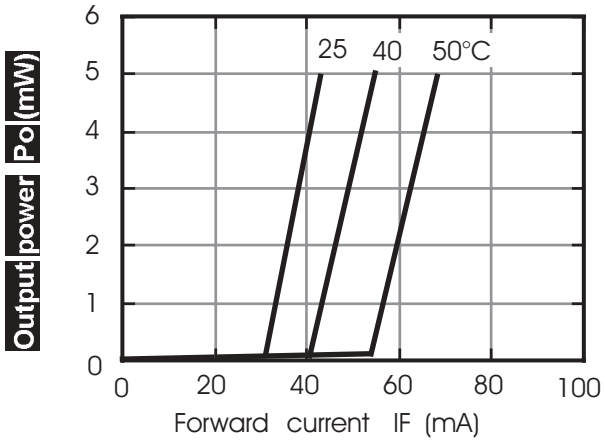
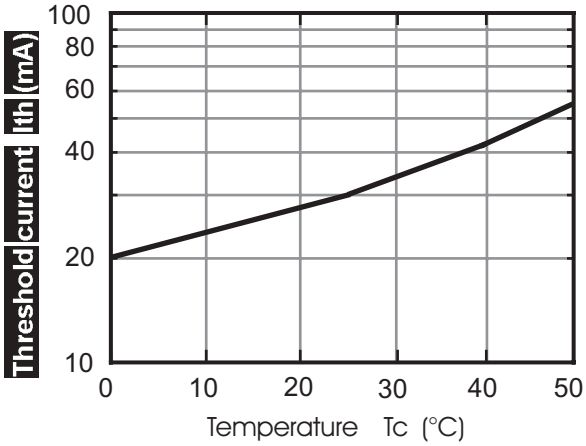
DL-3038-034

Characteristics

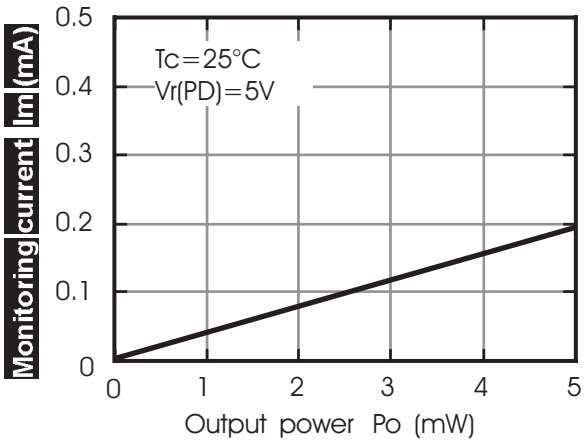
Output power vs. Forward current



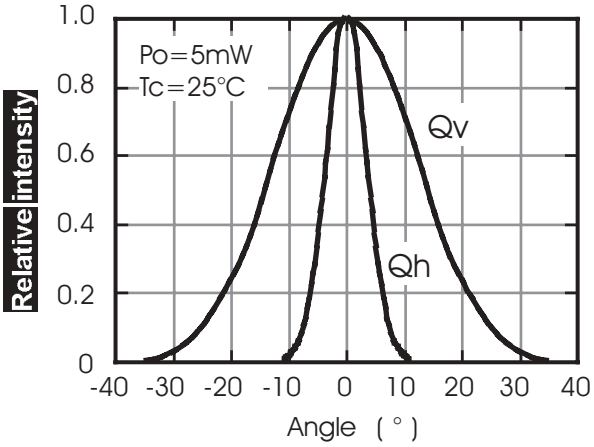
Threshold current vs. Temperature



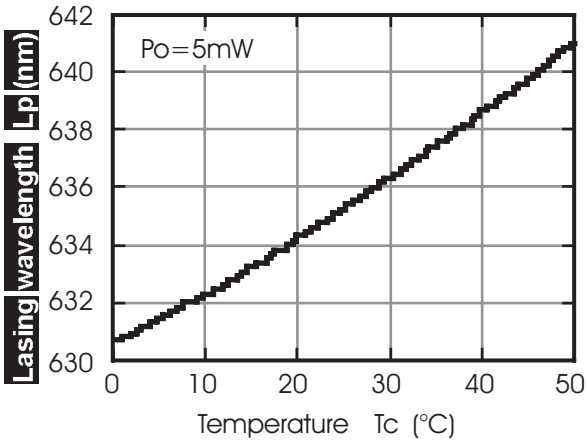
Monitoring current vs. Output power



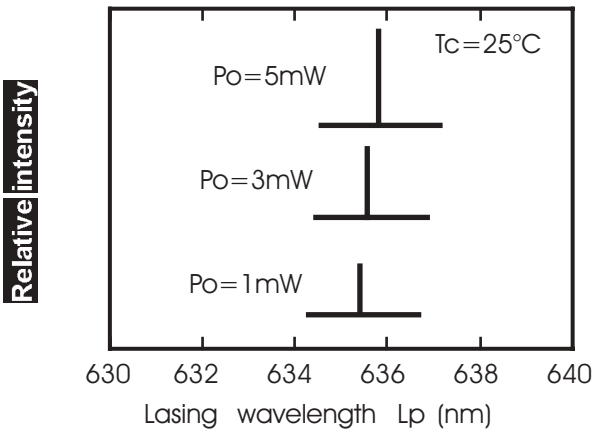
Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power



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

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