

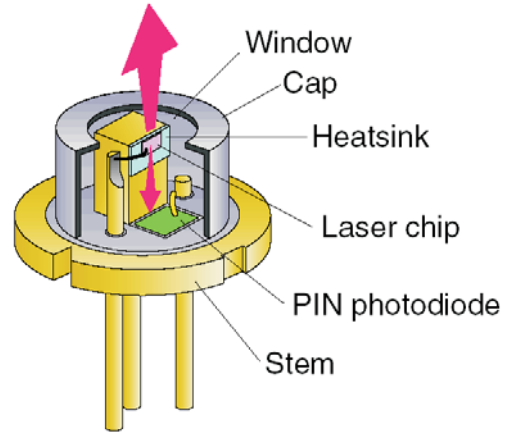
DL-3147-060

Wellenlänge: 650nm (typ.)
 Geringer Schwellstrom: 20mA (typ.)
 Max. Ausgangsleistung: 5mW bei +70°C
 TE mode

Anwendungsgebiete:
 DVD-ROM
 DVD-RAM-Reading

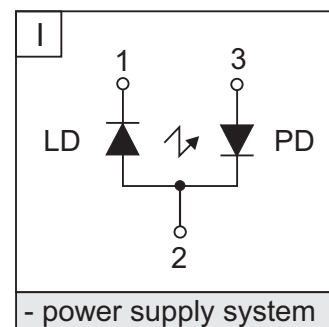
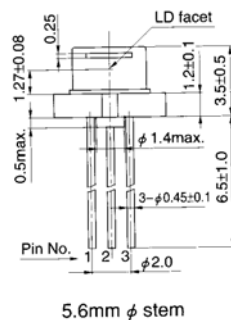
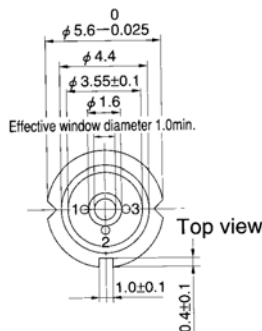
Maximalwerte

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...+70	°C
Lagertemperatur		Tstr	-40...+85	°C



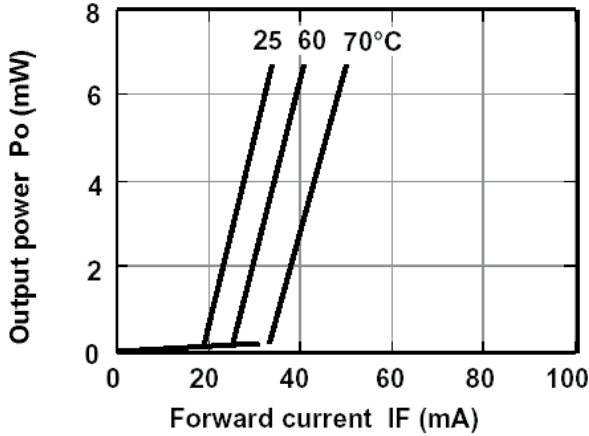
Elektrische und optische Eigenschaften bei 25°C

Parameter		Symbol	Betriebsbedingung	Min.	Typ.	Max.	Einheit
Schwellstrom		I _{th}	CW	---	20	35	mA
Betriebsstrom		I _{op}	Po=5mW	---	30	45	mA
Betriebsspannung		V _{op}	Po=5mW	---	2,3	2,6	V
Wellenlänge		λ	Po=5mW	645	650	660	nm
Strahl- divergenz	Senkrecht	θ _⊥	---	25	30	35	deg.
	Parallel	θ	---	7	8	10	deg.
Strahl- abweichung	Senkrecht	Δθ _⊥	---	---	---	+/-3	deg.
	Parallel	Δθ	---	---	---	+/-2	deg.
Differentieller Wirkungsgrad		dPo/dI _{op}	Po=5mW	0,3	0,5	0,8	mW/mA
Monitordiodenstrom		I _m	Po=5mW	0,08	0,20	0,4	mA
Astigmatismus		As	Po=5mW	---	8	---	μm

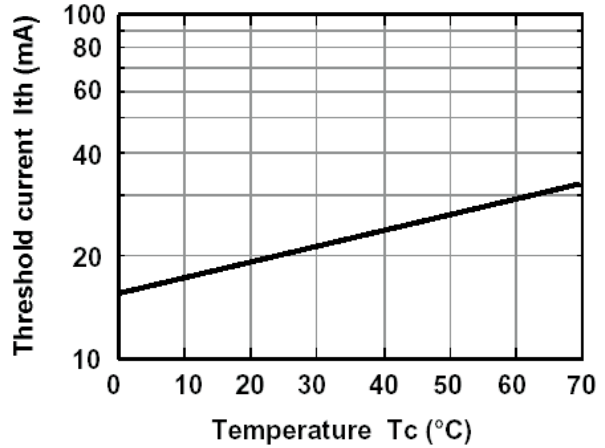


Characteristics

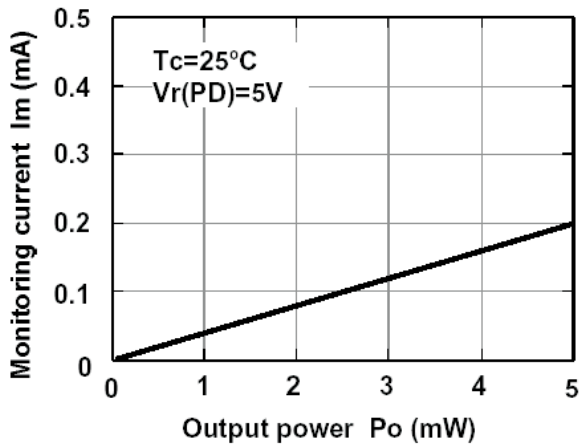
Output power vs. Forward current



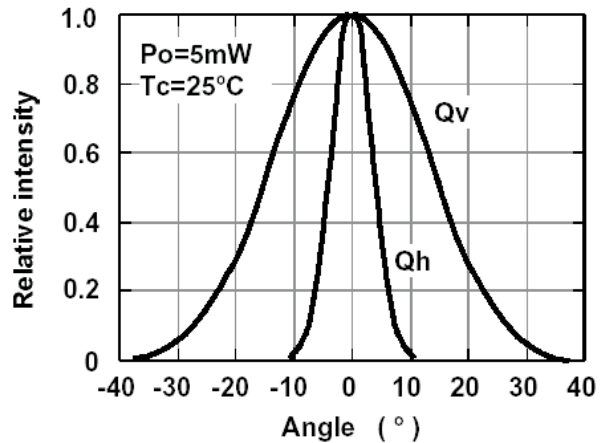
Threshold current vs. Temperature



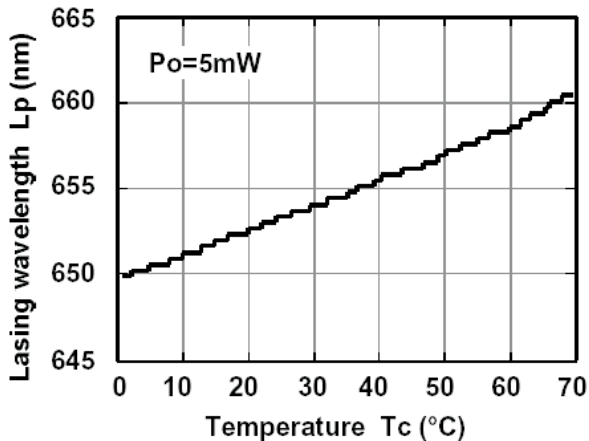
Monitoring current vs. Output power



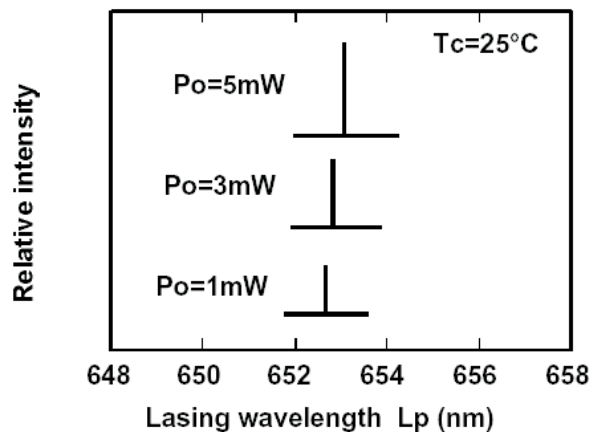
Beam divergence



Lasing wavelength vs. Temperature



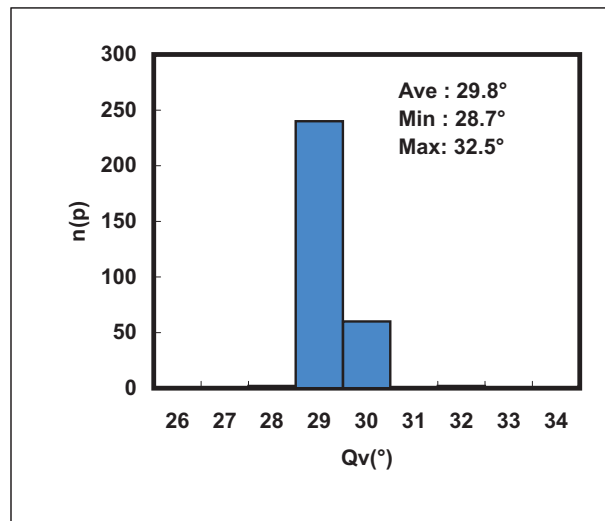
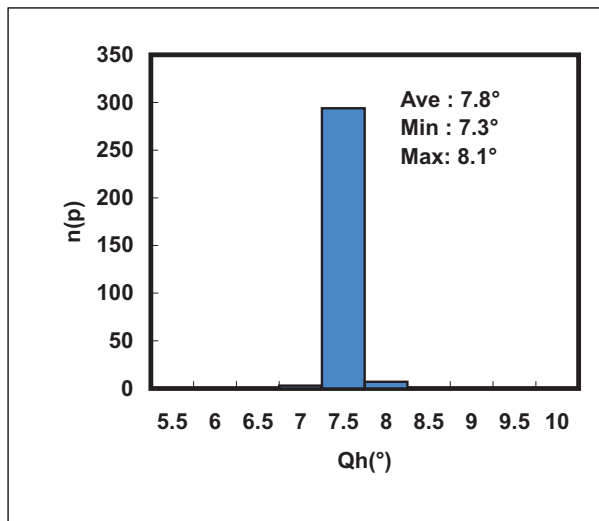
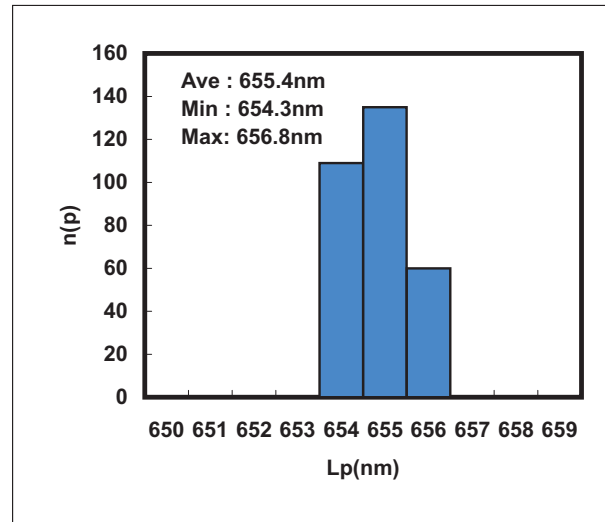
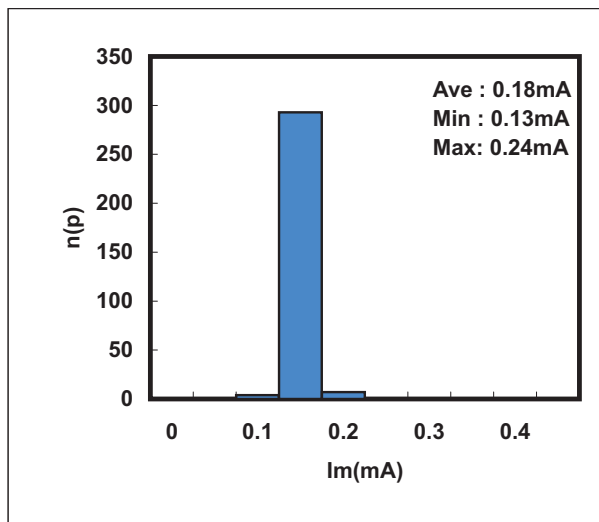
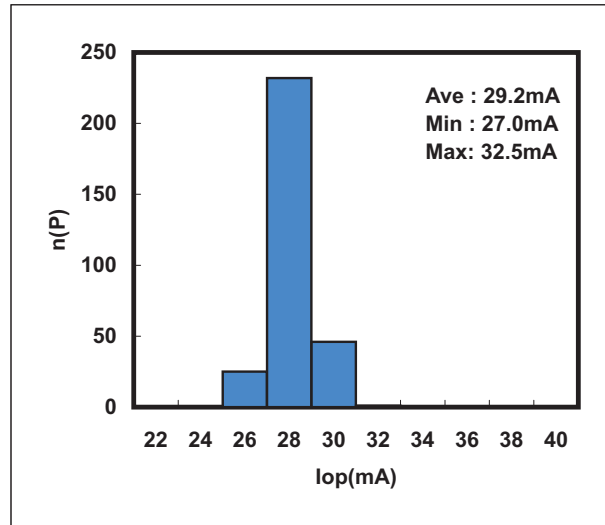
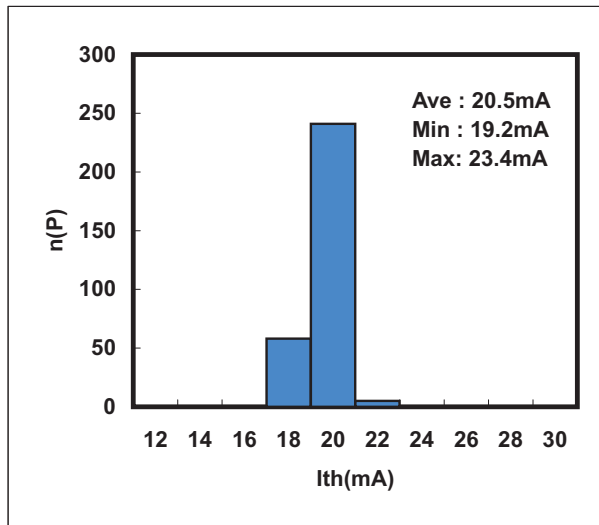
Lasing wavelength vs. Output power



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

Distribution data of DL-3147-060

SANYO
Po=5mW n=304P



Laserdiode DL-3147-060

This is an example of MTTF data

Judgement: lop x 1,2
 MTTF: 70°C; 5mW; 15000h

