INFRARED LASER DIODE

DL-8032-001

SANYO

Ver.4 Apr. 1999

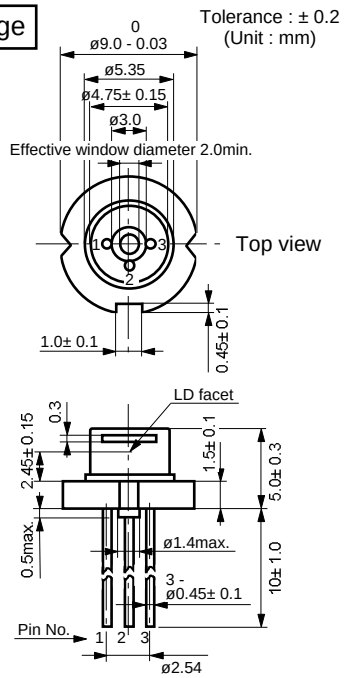
Features

- Lasing wavelength : 830 nm (Typ.)
- High output power : 150 mW at 50°C
- Low threshold current : Ith = 50 mA (Typ.)

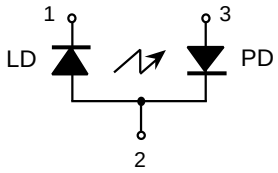
Applications

- Bar-code scanner
- Laser beam printer

Package



Pin Connection



Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	150	mW
Reverse Voltage	Laser	VR	2	V
	PD		30	
Operating Temperature		Topr	-10 to +50	°C
Storage Temperature		Tstg	-40 to +85	°C

Electrical and Optical Characteristics

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	CW	-	50	70	mA
Operating Current		Iop	Po=150mW	-	185	220	mA
Operating Voltage		Vop	Po=150mW	-	1.8	2.2	V
Lasing Wavelength		Lp	Po=150mW	815	830	840	nm
Beam Divergence 1)	Perpendicular	Qv	Po=150mW	12	18	25	°
	Parallel	Qh	Po=150mW	5	7	11	°
Off Axis Angle	Perpendicular	dAv	-	-	-	± 3	°
	Parallel	dQh	-	-	-	± 3	°
Differential Efficiency		dPo/dIop	-	0.7	1.0	-	mW/mA
Monitoring Output Current		Im	Po=150mW	0.15	0.5	2.0	mA
Astigmatism		Ac	Po=150mW	-	10	-	µm

1) Full angle at half maximum

Note : The above product specification are subject to change without notice.

Tottori SANYO Electric Co., Ltd. Electronic Device Business Headquarters
LED Division
5-318, Tachikawa, Tottori 680-8634 Japan TEL : +81-857-21-2137 FAX : +81-857-21-2161

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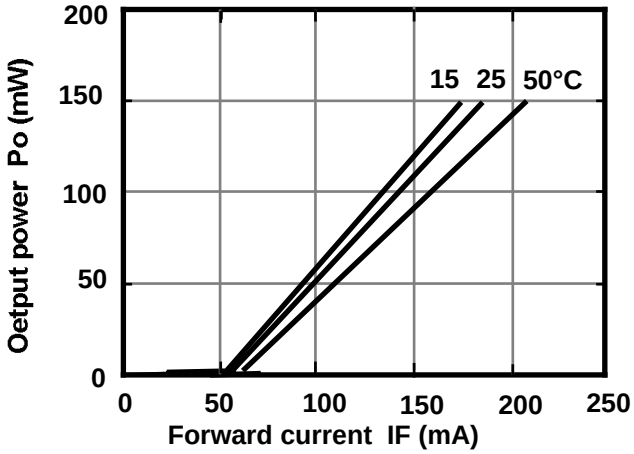
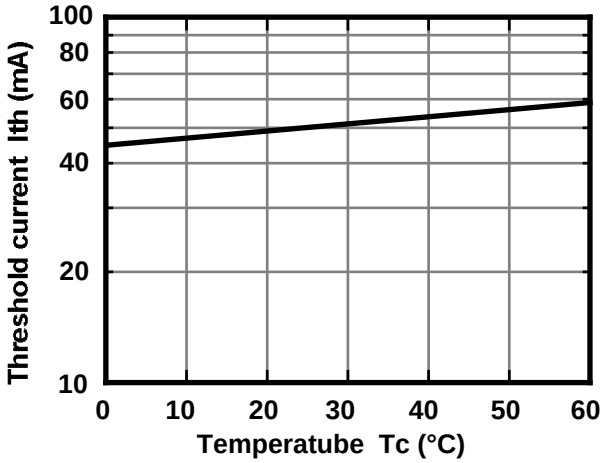
Characteristics

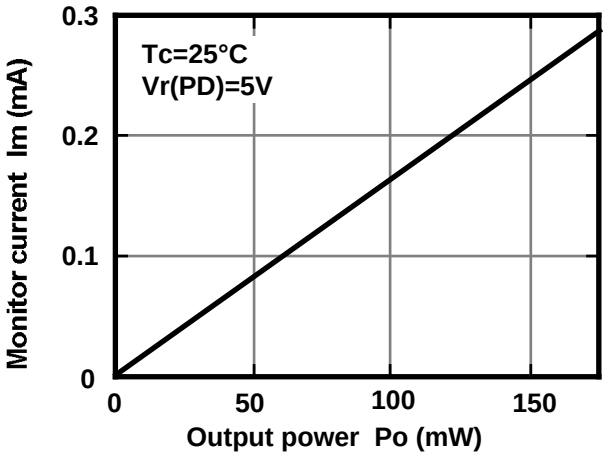
Output power vs. Forward current



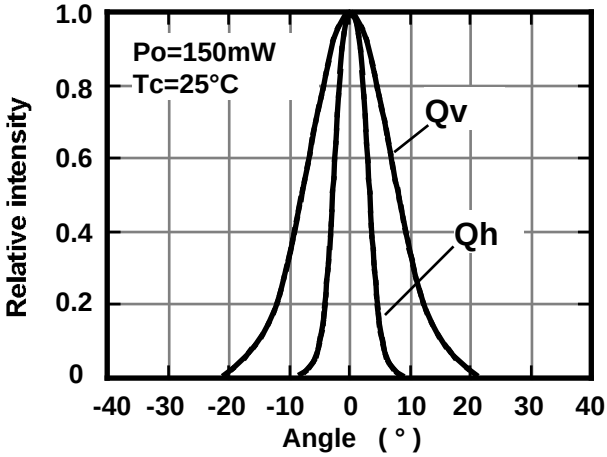
Threshold current vs. Temperature



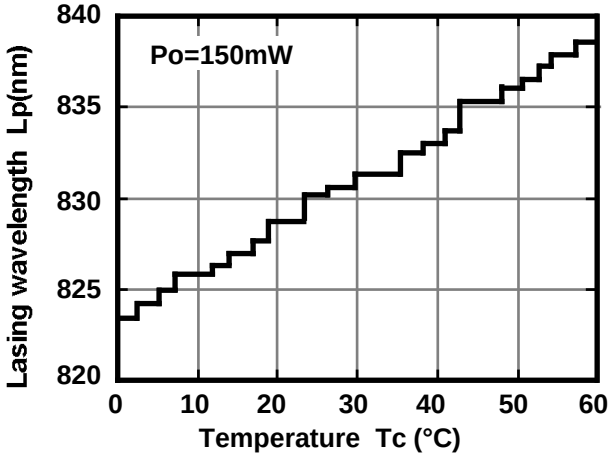
Monitor current vs. Output power



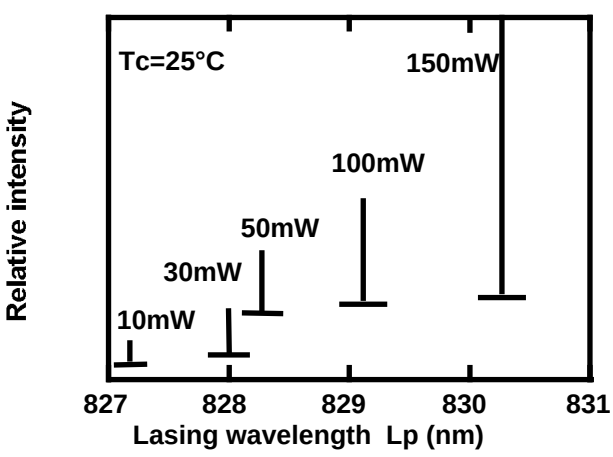
Beam divergence



Lasing wavelength vs. Temperature



Output power vs. Lasing wavelength



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