INFRARED LASER DIODE

DL-4140-001S

SANYO

Ver.1.00 Jun. 2001

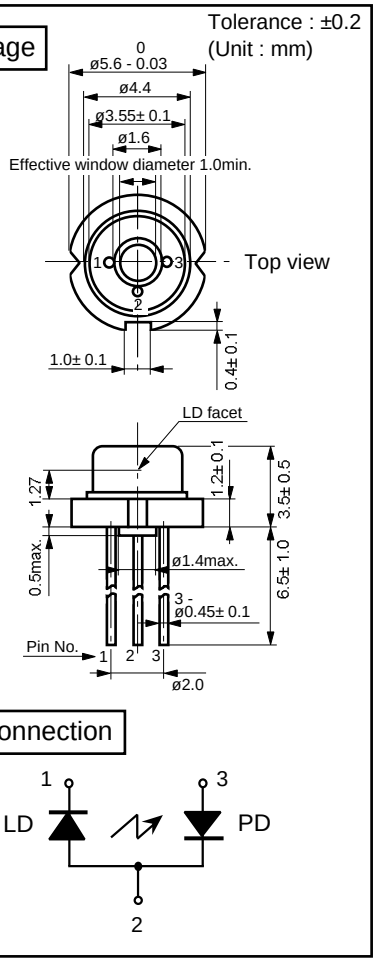
Features

- Wavelength : 785 nm (Typ.)
- Low threshold current : Ith = 30 mA (Typ.)
- Small package : ø5.6 mm

Applications

Laser Beam printer

Package



Pin Connection

Absolute Maximum Ratings

(Tc=25℃)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	25	mW
Reverse Voltage	Laser	VR	2	V
	PIN		30	
Operating Temperature		Topr	-10 to +60	℃
Storage Temperature		Tstg	-20 to +85	℃

Electrical and Optical Characteristics 2) 3) 4) 6)

(Tc=25℃)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	CW	-	30	50	mA
Operating Current		Iop	Po=20mW	-	65	90	mA
Lasing Wavelength		Lp	Po=20mW	776	785	800	nm
Beam Divergence 1)	Perpendicular	Qv	Po=20mW	15	25	35	°
	Parallel	Qh	Po=20mW	7	9	12	°
Off Axis Angle	Perpendicular	dQv	Po=20mW	-	-	± 3	°
	Parallel	dQh	Po=20mW	-	-	± 2	°
Differential Efficiency		dPo/dIop	-	0.3	0.6	0.8	mW/mA
Monitoring Output Current		Im	Po=20mW	0.3	0.8	1.5	mA
Astigmatism		As	Po=20mW	-	-	10	µm
Droop		dp	Po=20mW	-	-	10	%

1) Full angle at half maximum

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

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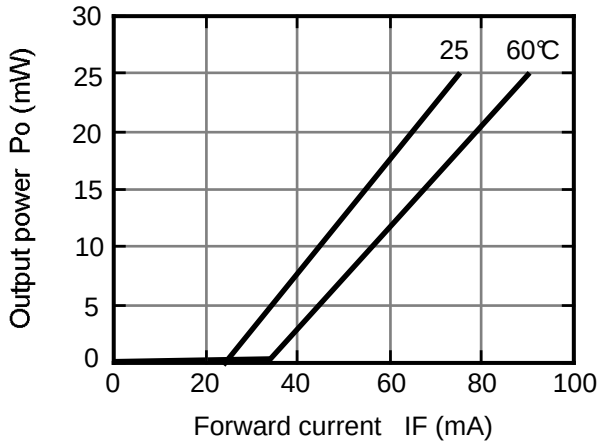
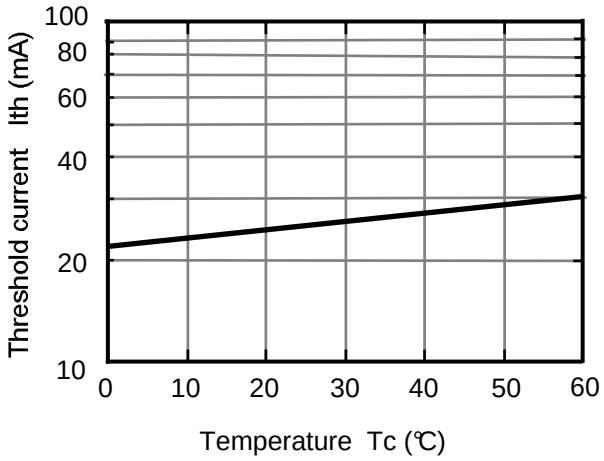
Characteristics

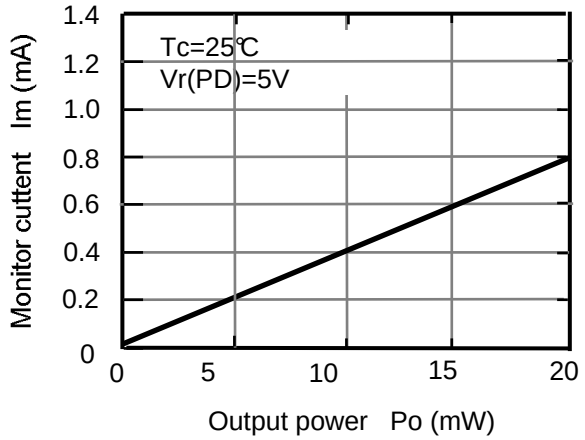
Output Power vs.Forward current



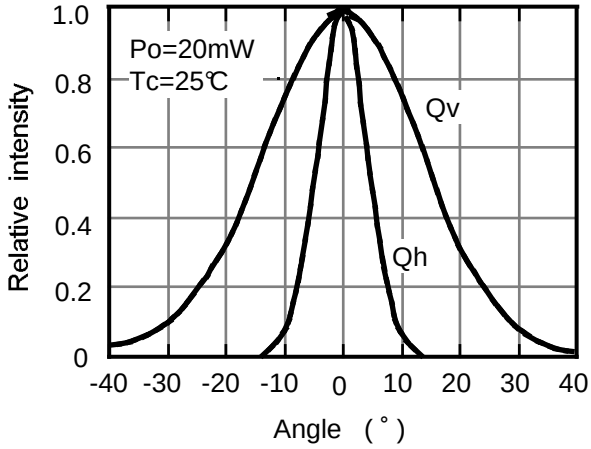
Threshold current vs. Temperature



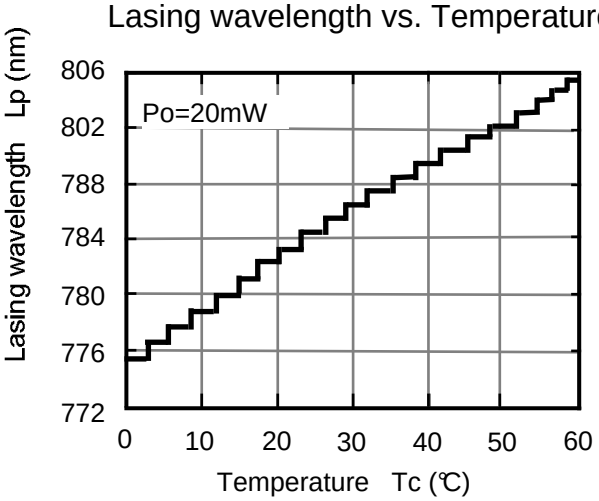
Monitor current vs.Output power



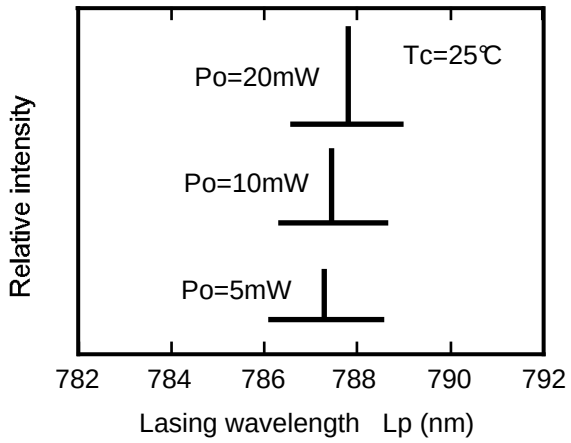
Beam divergence



Lasing wavelength vs. Temperature



Lasing wvelenght vs. Output power



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