

RED LASER DIODE

DL-3148-025

SANYO

Ver.1 Mar. 2002

Features

- Short wavelength : 635 nm (Typ.)
- Output power : 5mW CW
- Low threshold current : $I_{th} = 20$ mA (Typ.)
- Low operating voltage : $V_{op} = 2.2$ V (Typ.)
- Small package : $\phi 5.6$ mm

Applications

Laser pointer

Absolute Maximum Ratings

(T_c=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	P _o	6	mW
Reverse Voltage	Laser	V _R	2	V
	PD		30	
Operating Temperature		T _{opr}	-10 to +40	°C
Storage Temperature		T _{stg}	-40 to +85	°C

Electrical and Optical Characteristics

1) 2)

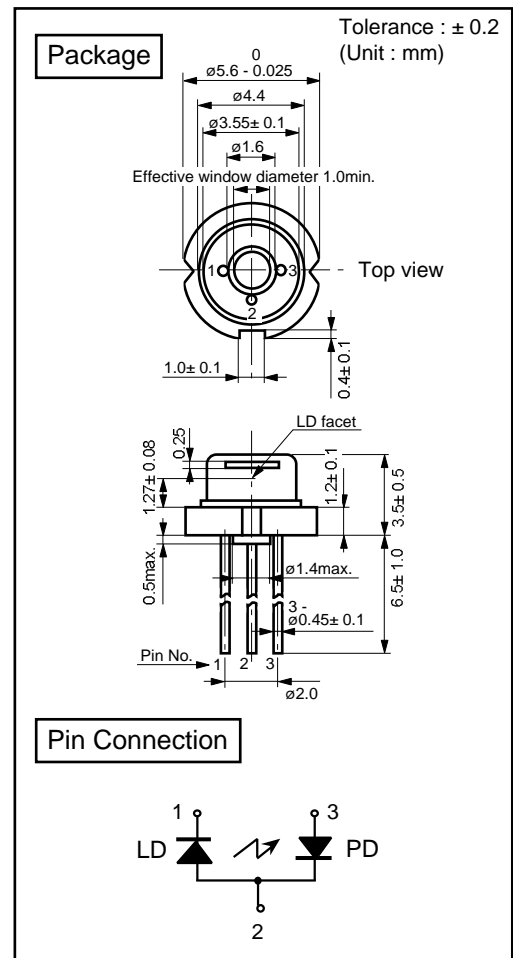
(T_c=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		I _{th}	CW	-	20	35	mA
Operating Current		I _{op}	P _o =5mW	-	30	45	mA
Operating Voltage		V _{op}	P _o =5mW	-	2.2	2.4	V
Lasing Wavelength		L _p	P _o =5mW	630	635	640	nm
Beam ³⁾ Divergence	Perpendicular	Q _v	P _o =5mW	25	30	35	°
	Parallel	Q _h	P _o =5mW	6	8	10	°
Off Axis Angle	Perpendicular	dQ _v	-	-	-	± 3	°
	Parallel	dQ _h	-	-	-	± 3	°
Differential Efficiency		dP _o /dI _{op}	-	-	0.5	-	mW/mA
Monitoring Output Current		I _m	P _o =5mW	0.08	0.2	0.5	mA
Astigmatism		A _s	P _o =5mW	-	8	-	μm

1) Initial values 2) All the above values are evaluated with Tottori Sanyo's measuring apparatus

3) 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

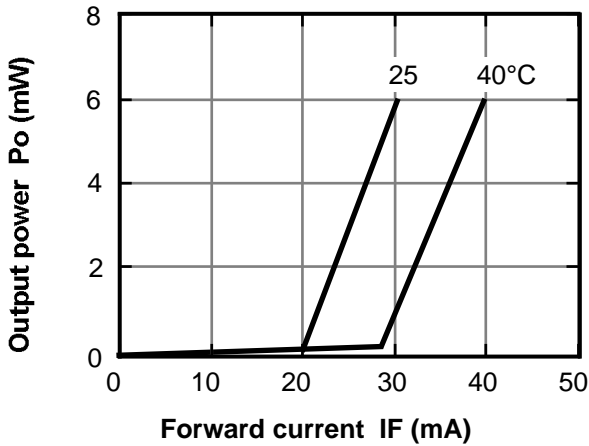
Sales: Creative Technology Lasers USA +1.925.210.1330 Tele +1.925.210.1380 FAX

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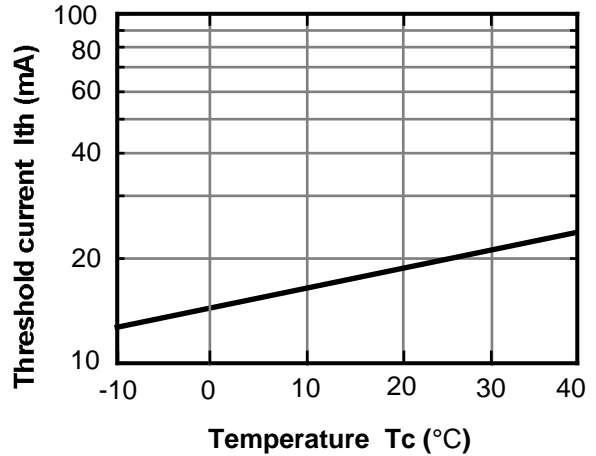


Characteristics

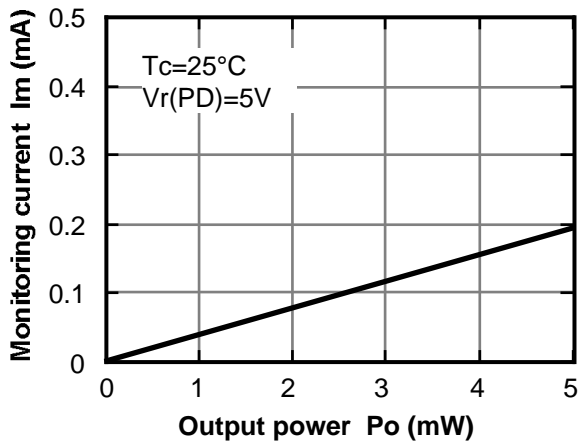
Output power vs. Forward current



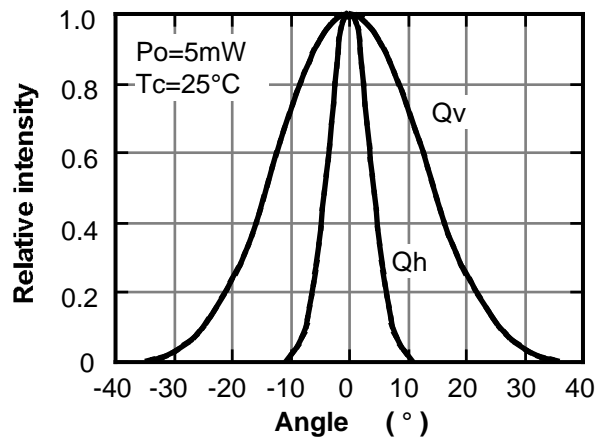
Threshold current vs. Temperature



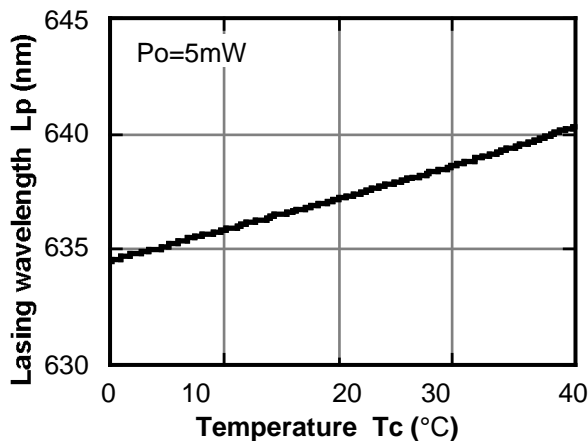
Monitoring current vs. Output power



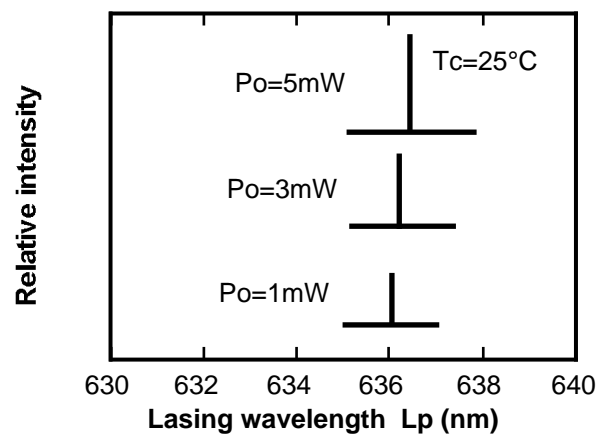
Beam divergence



Lasing wavelength vs. Temperature



Lasing wavelength vs. Output power



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