INFRARED LASER DIODE

DL-7141-035B

SANYO

Ver.1 Mar. 2003

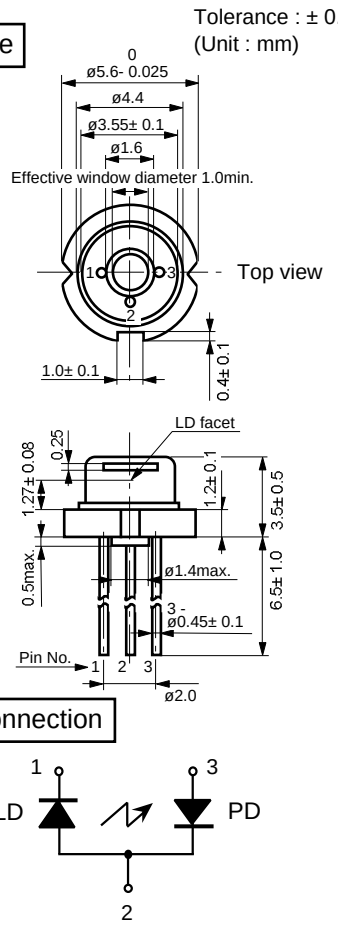
Features

- Lasing wavelength : 808 nm (Typ.)
- Single longitudinal mode
- High output power : 100 mW at 50°C
- Low threshold current : Ith = 40 mA (Typ.)
- Fundamental transverse mode
- Small package : ø5.6mm

Applications

- Solid state laser pumping

Package



Pin Connection

Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	110	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 1) 2)

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	CW	-	40	60	mA
Operating Current		Iop	Po=100mW	-	125	160	mA
Operating Voltage		Vop	Po=100mW	-	2.0	2.4	V
Lasing Wavelength *		Lp	Po=100mW	803	808	813	nm
Beam Divergence 3)	Perpendicular	Qv	Po=100mW	12	16	20	°
	Parallel	Qh	Po=100mW	6	8	10	°
Off Axis Angle	Perpendicular	dQv	-	-	-	± 3	°
	Parallel	dQh	-	-	-	± 3	°
Differential Efficiency		dPo/dIop	-	0.8	1.2	-	mW/mA
Monitoring Output Current		Im	Po=100mW	0.1	0.3	0.6	mA
Astigmatism		As	Po=100mW	-	3	-	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.

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