INFRARED LASER DIODE

DL-4034-154S

SANYO

Ver.1 Jun. 2001

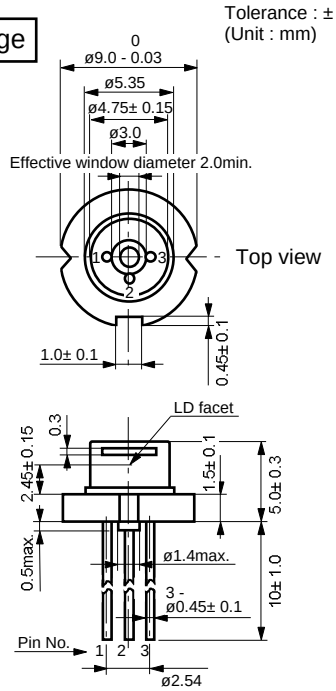
Features

- Wavelength : 785 nm (Typ.)
- Low threshold current : Ith = 30 mA (Typ.)
- Low droop : less than 10%

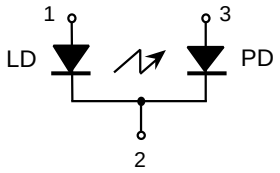
Applications

Laser printer

Package



Pin Connection



Absolute Maximum Ratings

(Tc=25°C)

Parameter		Symbol	Ratings	Unit
Light Output	CW	Po	15	mW
Reverse Voltage	Laser	VR	2	V
	PD		30	
Operating Temperature		Topr	-10 to +60	°C
Storage Temperature		Tstg	-40 to +85	°C

Electrical and Optical Characteristics 1)

(Tc=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Threshold Current		Ith	CW	20	30	40	mA
Operating Current		Iop	Po=10mW	-	60	80	mA
Lasing Wavelength		Lp	Po=10mW	770	785	800	nm
Beam Divergence 2)	Perpendicular	Qv	Po=10mW	20	28	35	°
	Parallel	Qh	Po=10mW	7	9	11	°
Off Axis Angle	Perpendicular	dQv	Po=10mW	-	-	± 3	°
	Parallel	dQh	Po=10mW	-	-	± 3	°
Differential Efficiency		dPo/dIop	-	0.25	0.35	0.45	mW/mA
Monitoring Output Current		Im	Po=10mW	0.2	0.4	1.0	mA
Astigmatism		As	Po=10mW	-	-	10	µm
Droop 3)		dp	Po=10mW	-	-	10	%

1) initial values, 2) full angle at half maximum, 3) f=600Hz,duty 10%-90%

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

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