SONY

SLD324YT

Advanced Information

as of Jan. '02

Features

- High power output : recommended output 2W
- High optical power density : optical power 2W/emitting line width 200 μm
- MTTF : 10000hours(Po=2.0W Tth=25°C)

Absolute Maximum Ratings (Tc=25°C)

- Radiant output Po 2.2 W
- Reverse voltage Vr LD 2V
  PD 15V
- Operation temperature(Tth) Topr -10～+30°C
- Storage temperature Tstg -40～+85°C

Optical and Electrical Characteristics of each item (Tcase=25°C)

Item		Symbol	Conditions	Min.	Typ.	Max.	Unit
Threshold current		Ith			0.6	1.0	A
Operating current		Iop	Po=2W		2.5	3.5	A
Operating voltage		Vop	Po=2W		2.2	3.0	V
Wavelength		λp	Po=2W	790		840	nm
Radiation angle	Perpendicular	θ⊥	Po=2W	20	30	40	degree
	Parallel	θ∥	Po=2W	4	9	17	degree
Positional accuracy	Position	ΔX, ΔY				±100	μm
	Angle	Δφ⊥	Po=2W			±3	degree
		Δφ∥	Po=2W			±4	degree
Differential efficiency		ηD	Po=2W	0.65	1.0		W/A
Monitor current		Imon	Po=2W	0.15	0.8	3.0	mA
Thermistor resistance		Rth	Tth=25°C		10		kΩ

Wavelength Classification

Type	Wavelength(nm)
SLD324YT-1	795±5
SLD324YT-2	810±10
SLD324YT-3	830±10
SLD324YT-21	798±3
SLD324YT-24	807±3
SLD324YT-25	810±3