

670mW 500mW Laser Diode / Tentative

Description The SLD1332V is a high power visible laser diode. This laser diode has high brightness 500mW which can be achieved by QW structure.

Features

•High output power

Recommended optical power output: Pop=500mW

•QW structure

•9mm Can-type Package

Application •Measurement

Structure

•AlGaInP quantum well structure laser diode

Absolute Maximum Ratings(Tc=25)		
 Optical power output 	Pomax	0.55	W
 Reverse voltage 	VR LD	2	V
	PD	15	V
•Operating temperature(Tc)	Topr	-10 to +30	
 Storage temperature 	Tstg	-40 to +85	

Operating Lifetime

•MTTF 10,000H(effective value) at Po=0.5W,Tc=25

Warranty

This warranty period shall be 90 days after receipt of the product or 1,000 hours operation time whichever is shorter.

Sony Quality Assurance Department shall analyze any product that fails during said warranty period, and if the product shall be replaced free of charge.

Laser diodes naturally have differing lifetimes which follow a Weibull distribution.

Special warranties are also available.

Connection Diagram





Electrical and Optical Characteristics

(Tc:case temperature, Tc=25)

	ltem	Symbol	Conditions	Min.	Тур.	Max.	Unit
Threshold cu	urrent	lth		-	0.4	0.7	А
Operating cu	urrent	lop	Po = 0.5W	-	0.8	1.2	А
Operating vo	ltage	Vop	Po = 0.5W	-	2.4	3.2	V
Wavelength		λр	Po = 0.5W	660	670	680	nm
Radiation	Perpendicular		Po = 0.5W	15	23	30	degree
angle	Parallel	//		4	8	15	degree
	Position ΔX, ΔY	-	-	±50	μm		
Positional accuracy	Angle		Po = 0.5W	-	-	±3	degree
	Angle			-	-	±3	degree
Differential et	fficiency	D	Po = 0.5W	-	1.0	-	W / A
Monitor curre	ent	lmon	Po = 0.5W	-	0.7	-	mA

M-248 (LO-11)



*Optical Distance = 2.55 ± 0.05

SONY CODE	M-248
EIAJ CODE	
JEDEC CODE	

PCD 2.54	
PACKAGE WEIGHT	1.2g