1.65μm SLD MODULE *AS6B118GM50M*

The AS6B118GM50M is 1.65μm SLD (Super Luminescent Diode) module developed as incoherent light sources for various optical measurements. The device emits incoherent light having wide spectral half width and high output power from PMF (polarization-maintaining fiber).

■FEATURES

- High optical output : 10mW/≤350mA
- Wide spectral half width Δλ=70nm (typ.)
- Built-in optical isolator
- Internal monitor PD and TEC

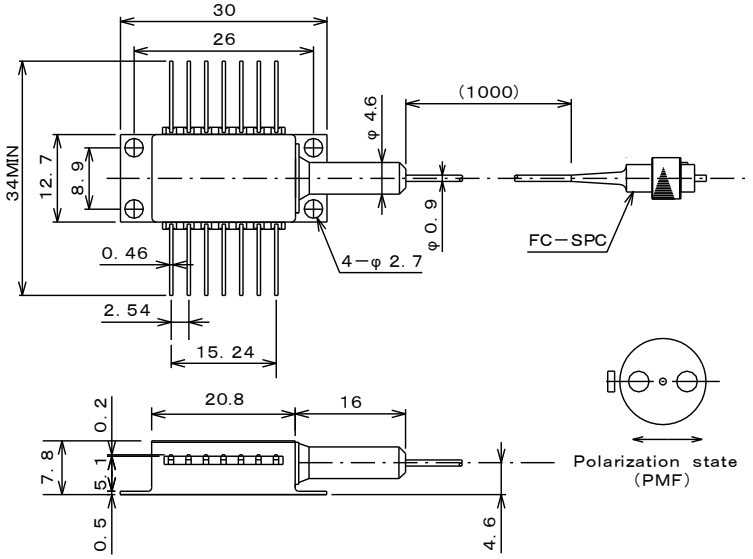
■APPLICATIONS

- Optical sensor
- Optical Coherent Tomography (OCT)
- Optical measurement

■ABSOLUTE MAXIMUM RATINGS (T_{SLD}=25deg.C)

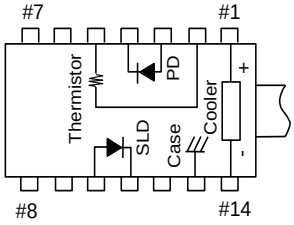
Item	Symbol	Rating	Unit
SLD Forward Current	I_F	420	mA
SLD Reverse Voltage	V_R	2	V
PD Forward Current	I_{FD}	10	mA
PD Reverse Voltage	V_{RD}	10	V
Operating Case Temperature	T_C	-20 to +75	°C
Storage Temperature	T_{stg}	-40 to +85	°C
Cooler Current	I_C	2	A

■DIMENSIONS



(Unit: mm)

TOP VIEW



■PIN CONFIGURATION

No.	FUNCTION	No.	FUNCTION
1	Cooler anode	8	NC
2	Thermistor	9	NC
3	PD anode	10	SLD anode
4	PD cathode	11	SLD cathode
5	Thermistor	12	NC
6	NC	13	Case
7	NC	14	Cooler cathode

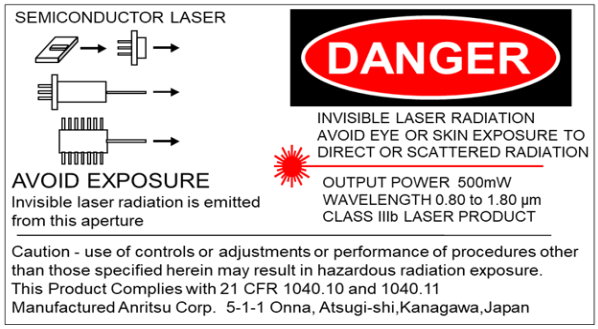
■OPTICAL AND ELECTRICAL CHARACTERISTICS (T_{SLD}=25deg.C, T_C=25deg.C)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	P_f=10mW			2.5	V
Forward Current (BOL)	I_F	P_f=10mW			350	mA
Center Wavelength	λ_C	P_f=10mW, -3dB	1630	1650	1670	nm
Spectral Width	Δλ	P_f=10mW, -3dB	65	70		nm
Spectral Ripple	M	P_f=10mW, res=0.1nm			0.6	dB
Monitor Current	I_m	P_f=10mW, V_{RD}=5V	100		2000	μA
PD Dark Current	I_d	V_{RD}=5V			0.1	μA
Tracking Error	ΔP_f	I_m=const, T_C=-20 to 75deg.C			0.5	dB
Cooler Voltage	V_c	I_F=*EOL, T_C=75deg.C			3.5	V
Cooler Current	I_c	I_F=*EOL, T_C=75deg.C			1.2	A
Thermistor Resistance	R_{th}	T_{SLD}=25deg.C, B=3900±100K	9.5	10	10.5	kΩ
Optical Isolation	R_o	λ=1650nm,T_{SLD}=25deg.C		30		dB

(Note) *EOL=BOL X 1.2

(Note) Polarization state of SLD is aligned parallel to the slow axis.

CAUTION : Handle the fiber of the enclosed device(s) with extreme care ; glass fiber is subject to breakage if mishandled and permanent damage to the device may result. Do not pull the device by the fiber or protective sleeve.
Do not coil the fiber into a loop of than 30 mm in radius.



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