

0.8 μ m SLD MODULE AS8E210GP30M

Optical fiber output power 1mW

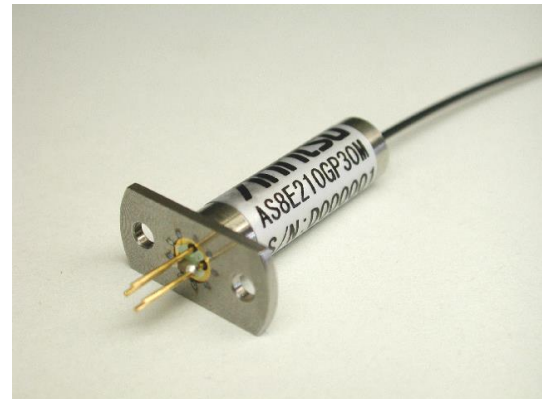
The AS8E210GP30M is SLD (Super Luminescent Diode) module developed as incoherent and broad spectrum profile light sources for various optical measurements.

FEATURES

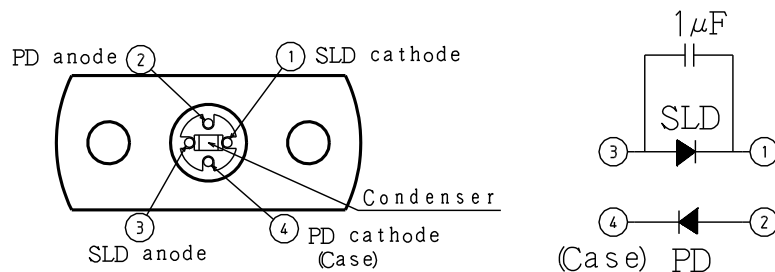
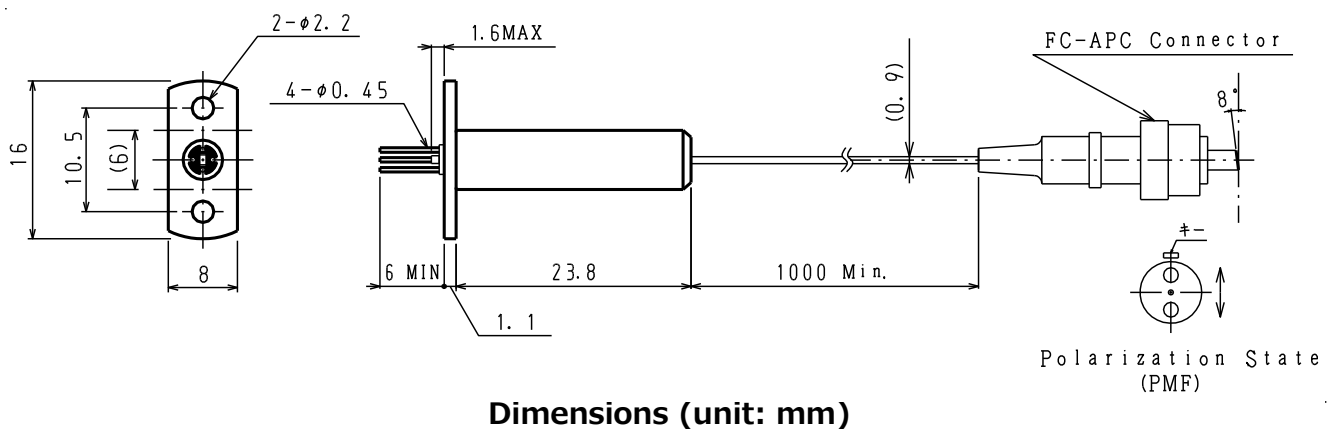
- Uncooled operation is available
- $P_f = 1\text{mW}$, PMF output power
- Broad spectrum profile $\Delta\lambda = 15\text{nm}$
- Built-in Monitor PD

APPLICATIONS

- Optical sensor / Optical encoder
- Optical Coherent Tomography (OCT)
- Substitute for high power LED



DIMENSIONS AND PIN CONFIGURATION



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Rating	Unit
Optical output power	P_f	1.2	mW
SLD Forward current	I_F	120	mA
SLD Reverse voltage	V_R	2	V
PD Reverse voltage	V_{RD}	15	V
Operating case temperature	T_C	-20~+70	°C
Storage temperature	T_{stg}	-40~+80	°C

ELECTRICAL AND OPTICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$)

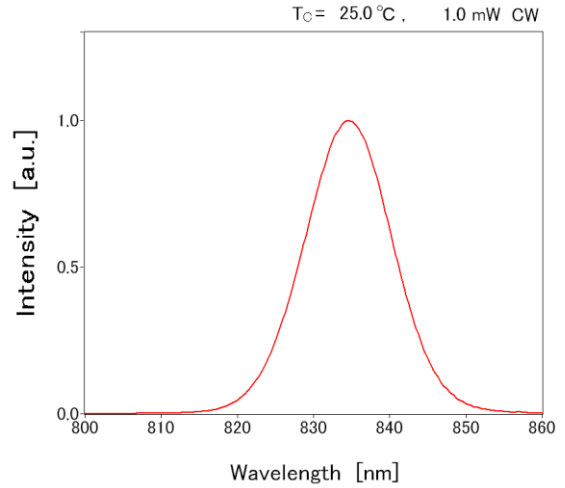
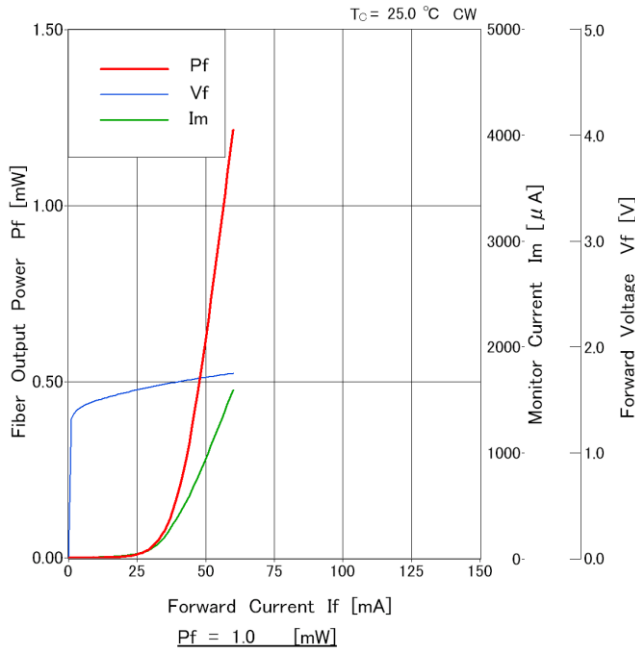
Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
SLD Forward current	I_F	$P_f=1\text{mW}$		70	100	mA
SLD Forward voltage	V_F	$P_f=1\text{mW}$		2.0	2.5	V
Center wavelength	λ_c	$P_f=1\text{mW}$	810	830	850	nm
Spectral half width	$\Delta\lambda$	$P_f=1\text{mW}$	10	15		nm
Spectral modulation	M_d	$P_f=1\text{mW}$		2	10	%
PD monitor current	I_m	$P_f=1\text{mW}, V_{RD}=5\text{V}$	0.2	1.5		mA
Tracking error	ΔP_f	$I_m=\text{constant},$ $T_C= -20 \text{ to } +70^\circ\text{C}$	-2.0		2.0	dB

OPTICAL FIBER CHARACTERISTICS

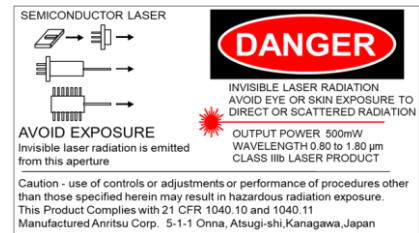
Item	Min.	Typ.	Max.	Unit
Cut-off wavelength	700	730	760	nm
Mode-field diameter @850nm	4.5	5.0	5.5	μm
Fiber clad diameter	123.5	125	126.5	μm
Coating diameter	850	-	950	μm
Fiber bending radius	13		-	mm

AS8E210GP30M TYPICAL CHARACTERISTICS

Light Output Power / Monitor Current / Forward Voltage – Forward Current Characteristics / Emission Spectrum



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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