

0.8 μ m SLD MODULE AS8Y1100M30M

The AS8Y1100M30M is an AlGaAs/GaAs 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

- PMF output coolerless coaxial module
- High optical output $P_f=1\text{mW}$
- Wide spectral half width $\Delta\lambda=17\text{nm}$ (typ.)
- Built-in monitor photo diode

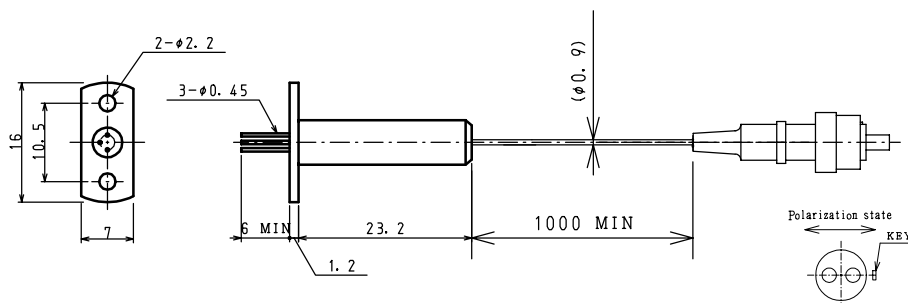
◆ APPLICATIONS

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

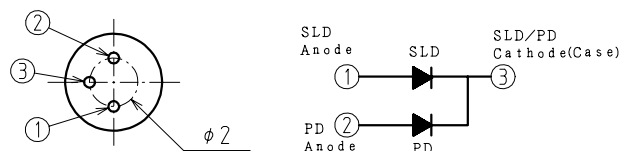
◆ ABSOLUTE MAXIMUM RATINGS ($T_{\text{SLD}}=25^\circ\text{C}$)

Item	Symbol	Rating	Unit
Optical Output Power	P_f	1.2	mW
SLD Forward Current	I_F	180	mA
SLD Reverse Voltage	V_R	2.0	V
PD Reverse Voltage	V_{RD}	15	V
Operating Case Temperature	T_C	-20 to +70	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 to +80	$^\circ\text{C}$

◆ DIMENSIONS



Package outline(Unit:mm)



Pin Configuration

◆ OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{\text{SLD}}=25^\circ\text{C}$, $T_C=-20$ to $+70^\circ\text{C}$)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
SLD Forward Voltage	V_F	$P_f=1\text{mW}$		2.0	2.5	V
SLD Operating Current	I_F	$P_f=1\text{mW}$		100	150	mA
Center Wavelength	λ_C	$P_f=1\text{mW}$	810	830	850	nm
Spectral Half Width	$\Delta\lambda$	$P_f=1\text{mW}$	10	17		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	$I_m=\text{const}$, $T_C=-20$ to $+70^\circ\text{C}$	-2		2	dB

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

Anritsu Corporation reserves the right to change the design or specification of the product at any time without notice.