0.8μm SLD CAN

AS8C1150Z30M

The AS8C1150Z30M is an AlGaAs/GaAs SLD (Super-Luminescent Diode) module developed as incoherent light sources for various optical measurements including Optical Coherent Tomography(OCT). The device emits wide spectral incoherent light. High intensity in a narrow radiation angle makes high efficient optical coupling to a single mode fiber.

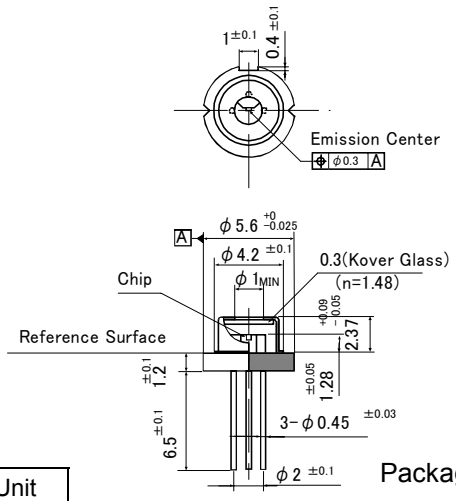
♦FEATURES

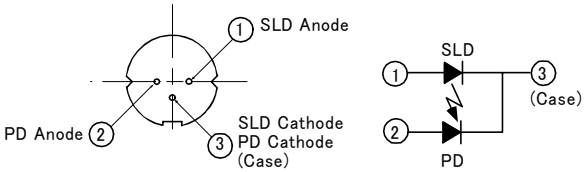
- Φ5.6 CAN package
- High optical output Po=5mW
- Wide spectral half width Δλ=17nm (typ.)
- Built-in monitor photo diode

♦APPLICATIONS

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

♦ DIMENSIONS





Pin Configuration

♦ ABSOLUTE MAXIMUM RATINGS (T_C=25°C)

Item	Symbol	Rating	Unit
Optical Output Power	P_O	6	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	°C
Storage Temperature	T_{stg}	-40 to +80	°C

♦OPTICAL AND ELECTRICAL CHARACTERISTICS (T_C=25°C)

Item	Symbol	Test condition	Min.	Typ.	Max.	Unit
SLD Forward Voltage	V_F	P_O=5mW		2.0	2.5	V
SLD Operating Current	I_F	P_O=5mW		100	150	mA
Center Wavelength	λ_C	P_O=5mW	810	830	850	nm
Spectral Half Width	$\Delta\lambda$	P_O=5mW	10	17		nm
Spectral Modulation	Md	P_O=5mW		2	10	%
PD Monitor Current	I_m	P_O=5mW, V_{RD}=5V	0.2	1.5		mA
Parallel Beam Divergence	θ//	P_O=5mW		15		°
Perpendicular Beam Divergence	$\theta\perp$	P_O=5mW		45		°