

■ **FEATURES**

- High radiant flux density
- Low coherency

■ **APPLICATIONS**

- Optical measurement
- Imaging instruments for medical



■ **ABSOLUTE MAXIMUM RATINGS (T_{op(C)} = 25 °C)**

Parameter	Symbol	Value	Unit
Radiant output power	Φ_e	35	mW
Forward current	I_f	140	mA
Reverse voltage	V_r	1.5	V
Operating temperature	$T_{op(C)}$	0 to +50	°C
Storage temperature	T_{stg}	-20 to +80	°C

■ **ELECTRICAL AND OPTICAL CHARACTERISTICS (T_{op(C)} = 25 °C)**

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
Peak emission wavelength	λ_c	$\Phi_e = 30 \text{ mW}$	855	875	895	nm
Spectral radiation half bandwidth	$\Delta\lambda$		7	10	13	nm
Forward voltage	V_{op}		—	1.7	1.9	V
Forward current	I_{op}		—	110	125	mA
Beam spread angle	Parallel	$\Phi_e = 30 \text{ mW}$ FWHM	6	11	16	° (degree)
	Vertical		θ_{\perp}	26	36	46
Emitting width	—	Value at designing	—	5	—	μm
Coherent length	L_c	$\Phi_e = 30 \text{ mW}$	—	70	—	μm

SLD (Super Luminescent Diode) L11607-04

Figure 1: Radiant output power vs. Forward current (typ.)

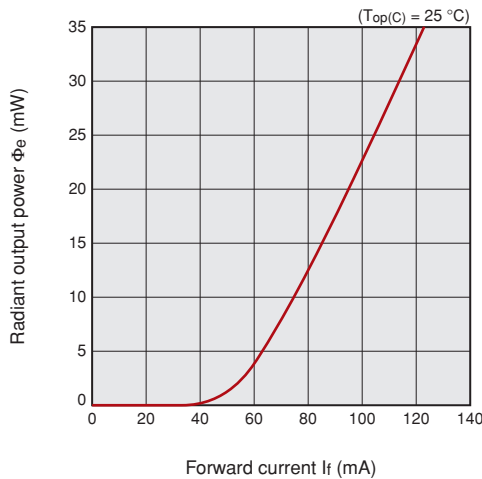


Figure 2: Typical emission spectrum

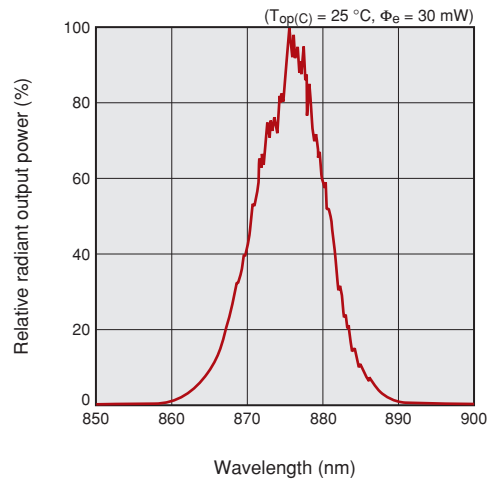


Figure 3: Directivity (typ.)

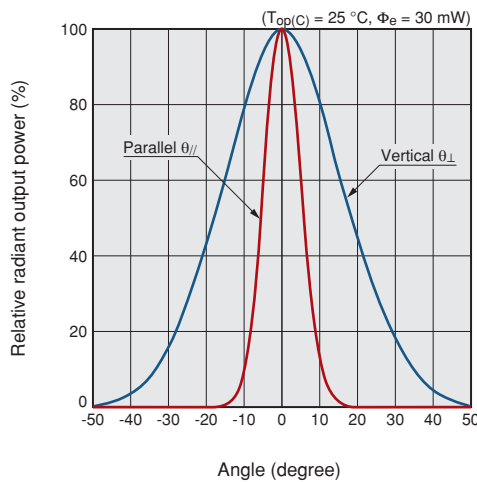
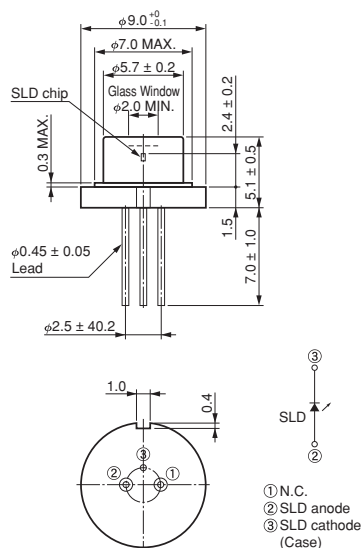


Figure 4: Dimensional outline (unit: mm)



● Information described in this material current as of October 2023. Specifications are subject to change without notice.

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