

■ **Features**

- Lateral multimode (broad stripe)
- Radiant output power (CW): 1 W
- Peak emission wavelength: 808 nm
- Emitting area size: 50 μm \times 1 μm

■ **Applications**

- Pumping source for solid state laser
- Processing
- Medical instrument
- Measure instrument



■ **Absolute maximum ratings ($T_{\text{op}(c)} = 25\text{ }^{\circ}\text{C}$)**

Parameter	Symbol	Value	Unit
Radiant output power	Φ_e	1.2	W
Forward current	I_f	1.4	A
Reverse voltage	V_r	2	V
Operating temperature	$T_{\text{op}(c)}$	0 to +30	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-30 to +80	$^{\circ}\text{C}$

■ **Electrical and optical characteristics ($T_{\text{op}(c)} = 25\text{ }^{\circ}\text{C}$)**

Parameter	Symbol	Conditions	Value			Unit
			Min.	Typ.	Max.	
Radiant output power	Φ_e	$I_f = 1.2\text{ A}$	—	1	—	W
Forward current	I_{op}	$\Phi_e = 1\text{ W}$	—	1.2	—	A
Peak emission wavelength	λ_c		—	808	—	nm
Spectral radiation half bandwidth	$\Delta\lambda$		—	2	—	nm
Forward voltage	V_{op}		—	2	—	V
Beam spread angle	Parallel		$\theta_{//}$	—	8	—
	Vertical	θ_{\perp}	—	32	—	degree
Emitting area	—	Value at designing	—	50 \times 1	—	μm
Lasing threshold current	I_{th}	—	—	0.35	—	A

CW Laser Diode L8763 Series

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

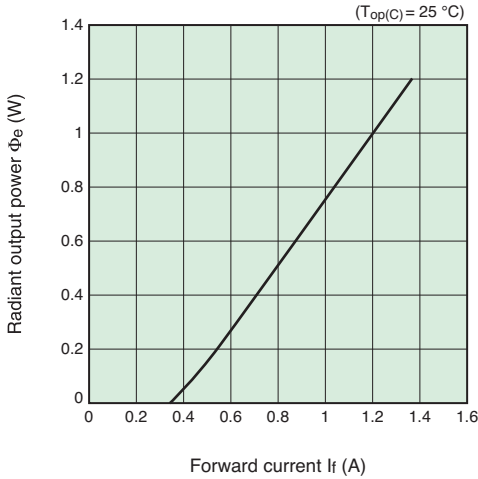


Figure 2: Typical emission spectrum

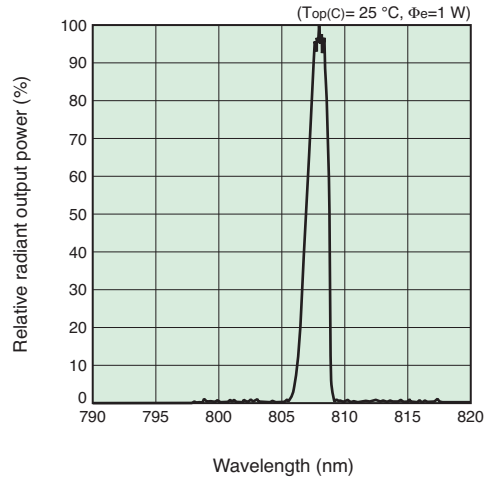


Figure 3: Directivity (typ.)

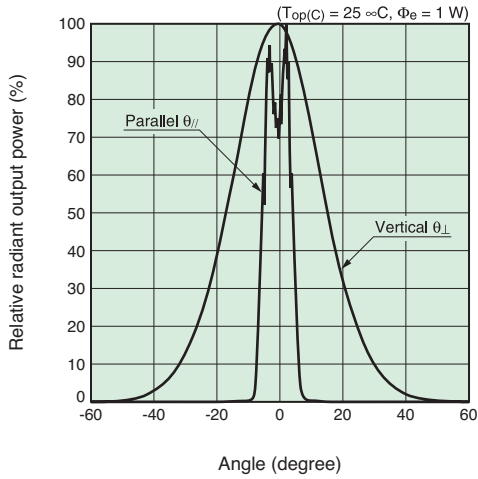
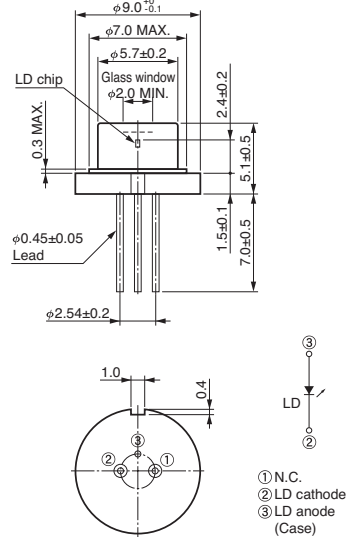
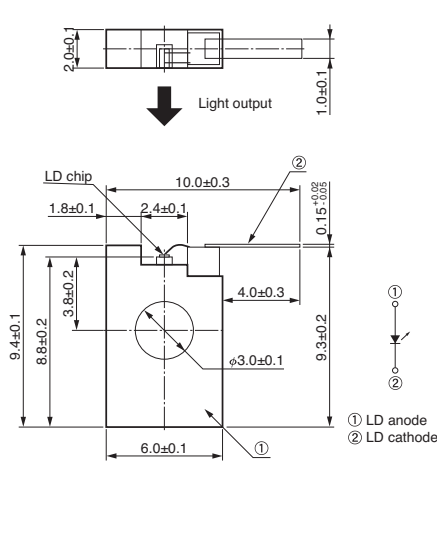


Figure 4: Dimensional outline (unit: mm)

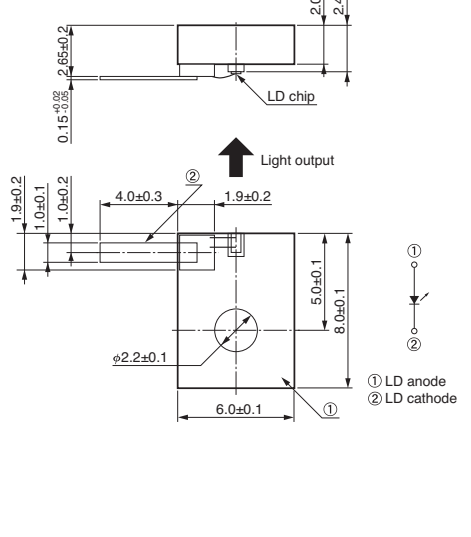
● L8763-42
φ9.0CD



● L8763-62
Side Out OHS



● L8763-72
Head Out OHS



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