

■ FEATURES :

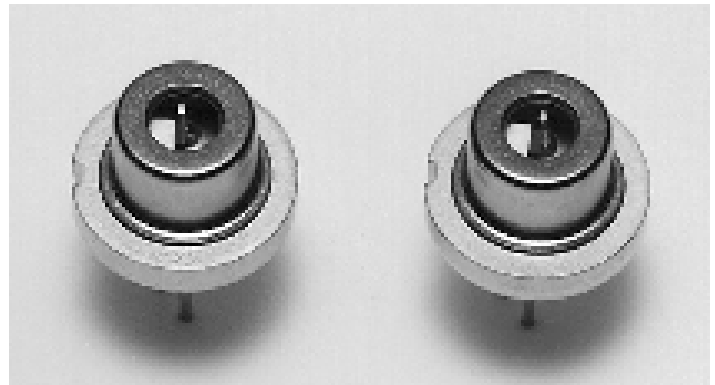
High output power & high brightness

- 300mW CW Output Power
- 200 μ m x 1 μ m Emitting Area

High Stability

Long Life

Compact



■ APPLICATIONS :

Pumping source for Solid State Laser

Printing

Medical Instrument

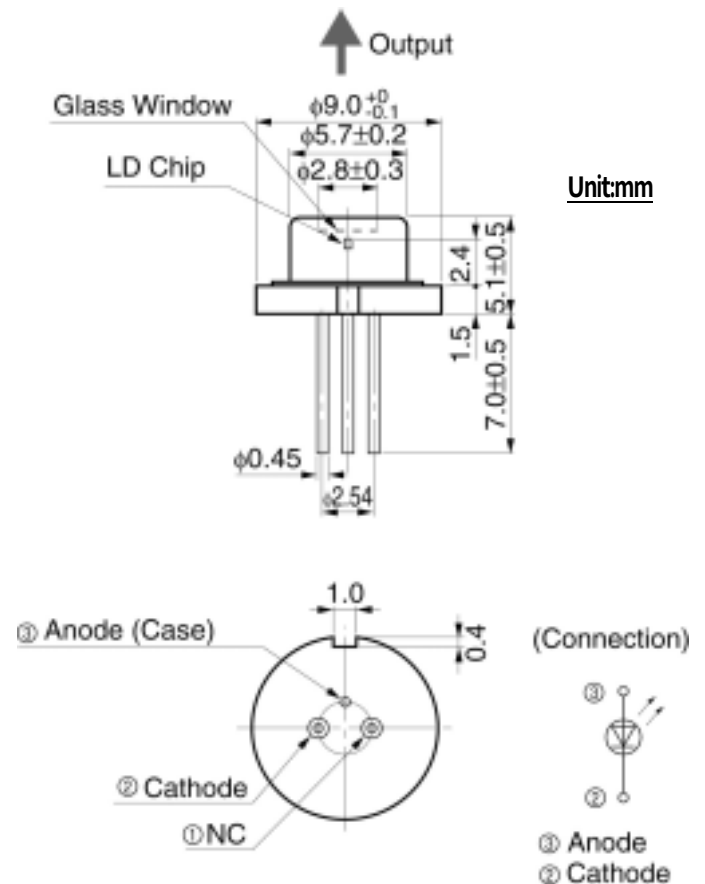
Measuring Instrument

Marking

■ ABSOLUTE MAXIMUM RATINGS

(Top(c)=25°C)

Parameter	Symbol	Value	Unit
Radiant Output Power	ϕ_e	0.4	W
Reverse Voltage	V_R	2	V
Operating Temperature	Top(c)	-20 to +30	°C
Storage Temperature	Tstg	-40 to +80	°C



■ ELECTRICAL AND OPTICAL CHARACTERISTICS

(Top(c)=25°C)

Parameter	Symbol	Condition	Value			Unit
			Min.	Typ.	Max.	
Radiant Output Power	ϕ_e	$I_F = 0.6A$	-	0.3	-	W
Peak Emission Wavelength	λ_p	$I_F = 0.6A$	670	680	690	nm
Spectral Radiation Half Bandwidth	$\Delta\lambda$	$I_F = 0.6A$	-	3	-	nm
Forward Voltage	V_F	$I_F = 0.6A$	-	2.2	2.6	V
Beam Spread Angle	θ_l	$I_F = 0.6A$ FWHM	-	8	-	degree
	θ		-	30	-	degree
Lasing Threshold Current	I_{th}	-	0.25	0.35	0.45	A

680nm CW Laser Diode L8048-04

Figure 1: Radiant Output Power Figure v.s. Forward Current (Typ.)

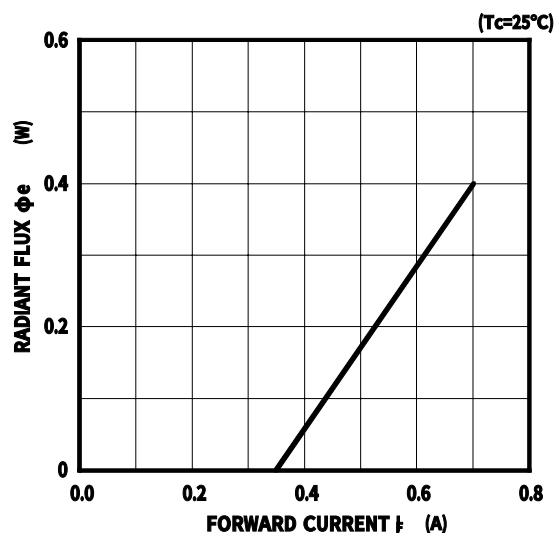


Figure 2: Emission Spectrum (Typ.)

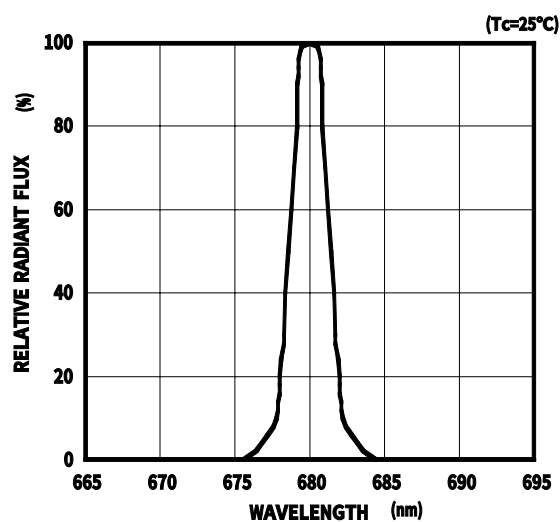


Figure 3: Directivity (Typ.)

