

■ **FEATURES :**

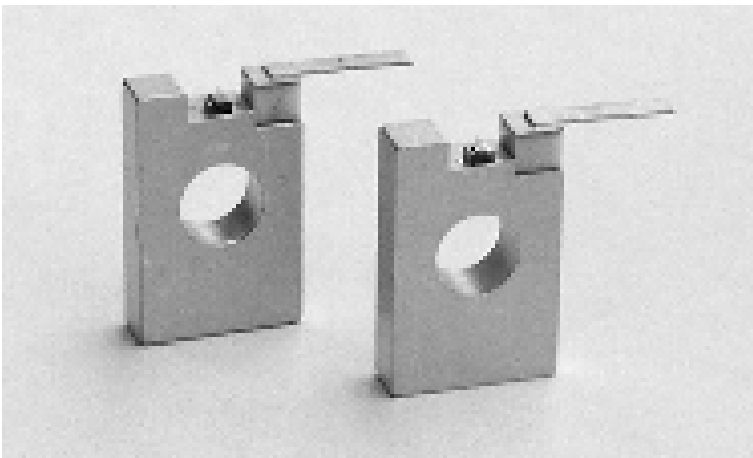
High output power & high brightness

- 400mW CW Output Power
- 200μm x 1μm Emitting Area

High Stability

Long Life

Compact



■ **APPLICATIONS :**

Pumping source for Solid State Laser

Printing

Medical Instrument

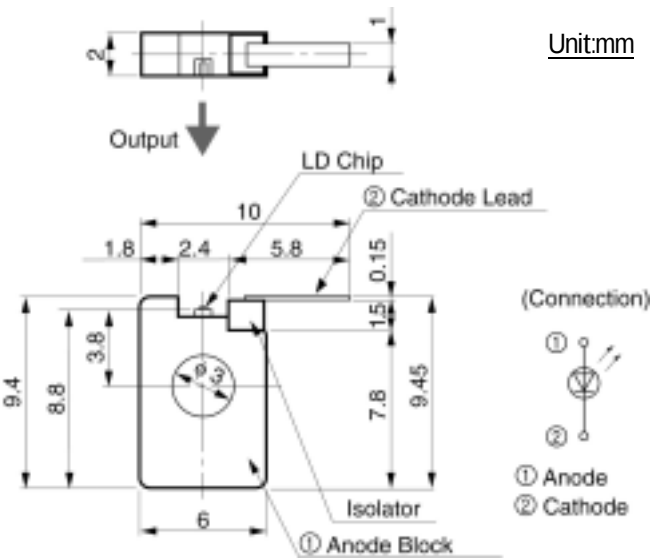
Measuring Instrument

Marking

■ **ABSOLUTE MAXIMUM RATINGS**

(Top(c)=25)

Parameter	Symbol	Value	Unit
Radiant Output Power	Øe	0.5	W
Reverse Voltage	VR	2	V
Operating Temperature	Top(c)	-10 to +30	
Storage Temperature	Tstg	-40 to +80	



■ **ELECTRICAL AND OPTICAL CHARACTERISTICS**

(Top(c)=25)

Parameter	Symbol	Condition	Value			Unit
			Min.	Typ.	Max.	
Radiant Output Power	Øe	IF =0.7A	-	0.4	-	W
Peak Emission Wavelength	λp	IF =0.7A	670	680	690	nm
Spectral Radiation Half Bandwidth	Δλ	IF =0.7A	-	3	-	nm
Forward Voltage	VF	IF =0.7A	-	2.2	2.6	V
Beam Spread Angle	θI	IF =0.7A FWHM	-	8	-	degree
	θ		-	30	-	degree
Lasing Threshold Current	Ith	-	0.25	0.35	0.45	A

680nm CW Laser Diode L8048-06

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

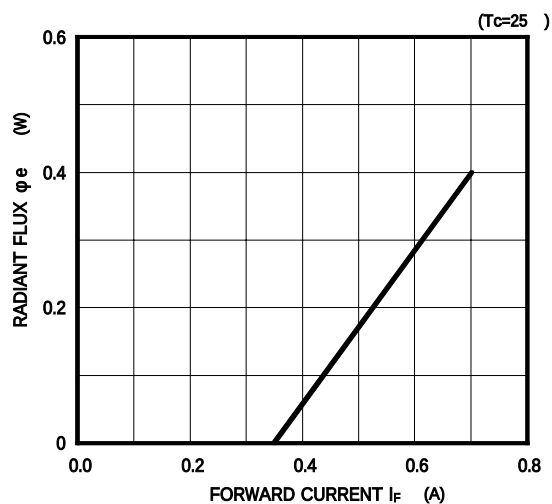


Figure 2: Emission Spectrum (Typ.)

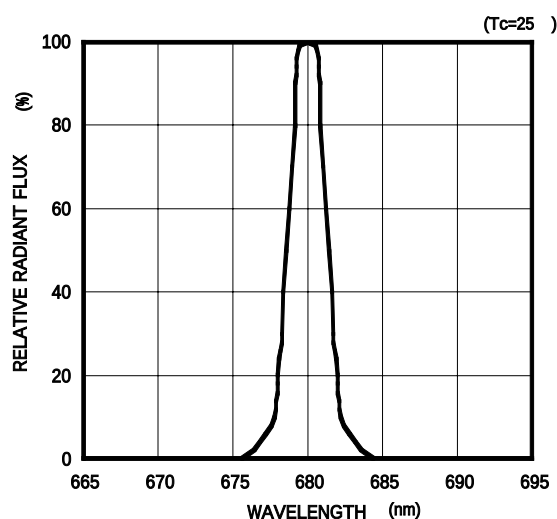


Figure 3: Directivity (Typ.)

