

FEATURES :

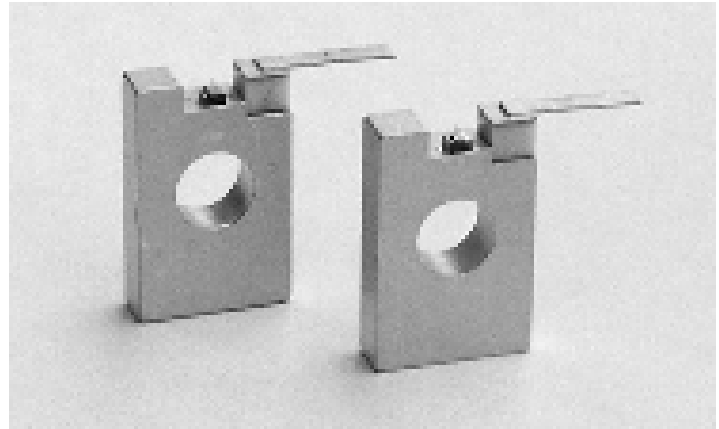
High output power & high brightness

- 400mW 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

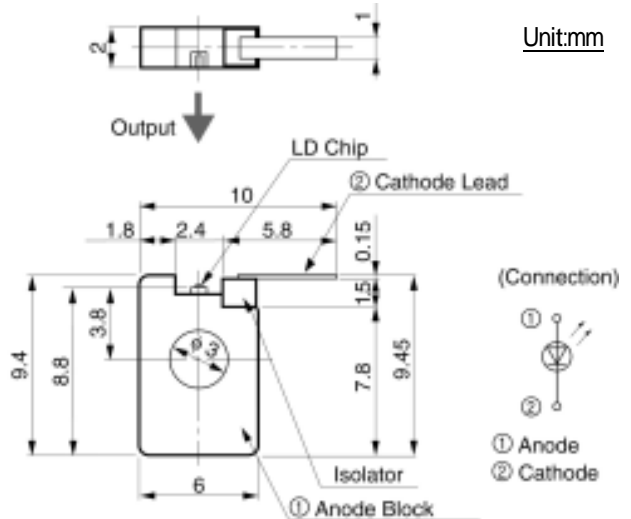
Measuring Instrument

Marking

ABSOLUTE MAXIMUM RATINGS

(Top(c)=25)

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



ELECTRICAL AND OPTICAL CHARACTERISTICS

(Top ϕ =25)

Parameter	Symbol	Condition	Value			Unit
			Min.	Typ.	Max.	
Radiant Output Power	ϕ_e	$I_F=0.7A$	-	0.4	-	W
Peak Emission Wavelength	ρ	$I_F=0.7A$	670	680	690	nm
Spectral Radiation Half Bandwidth		$I_F=0.7A$	-	3	-	nm
Forward Voltage	V_F	$I_F=0.7A$	-	2.2	2.6	V
Beam Spread Angle	//	$I_F=0.7A$	-	8	-	degree
			\perp	FWHM	-	30
Lasing Threshold Current	I_{th}	-	0.25	0.35	0.45	A

680nm CW Laser Diode L8048-06

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

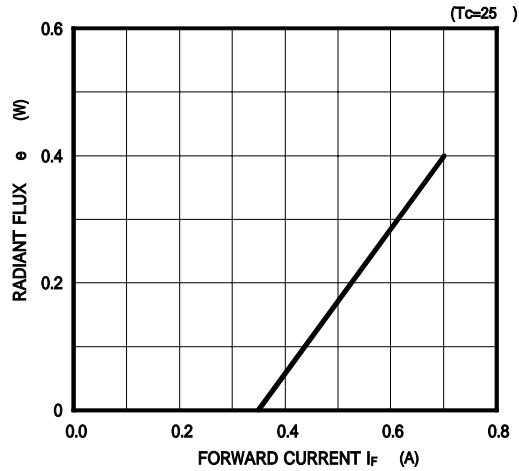


Figure 2: Emission Spectrum (Typ.)

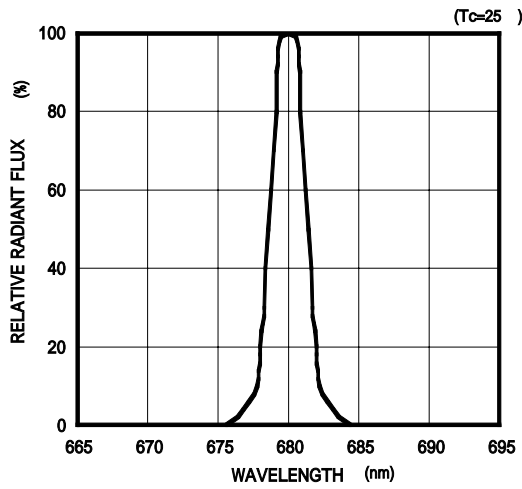


Figure 3: Directivity (Typ.)

