

FEATURES

- > High Power Infrared LED
- > Peak wavelength typ. 1550 nm
- > Very High radiant Intensity
- > Emission angle $\pm 4^\circ$

SAFETY ADVICES

Depending on the application, these devices which emit infrared light may exceed over Accessible Emission Limit and cause the damage to the human eye.
 Keep the safety precautions given in IEC 60825-1 and IEC 625471 before using.

APPLICATIONS

- > Light Sources for analysis
- > Industrial Light Sources



Absolute Maximum Ratings (Ta=25°C)

Items	Symbol	Maximum Rated Value	Unit
Power Dissipation	Pd	120	mW
Forward Current	If	100	mA
Pulse Forward Current	Ifp	1000	mA
Reverse Voltage	Vr	5	V
Thermal Resistance	Rthja		K/W
Junction Temperature	Tj		°C
Operating Temperature	Topr	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	°C
Soldering Temperature	Tsol	265	°C



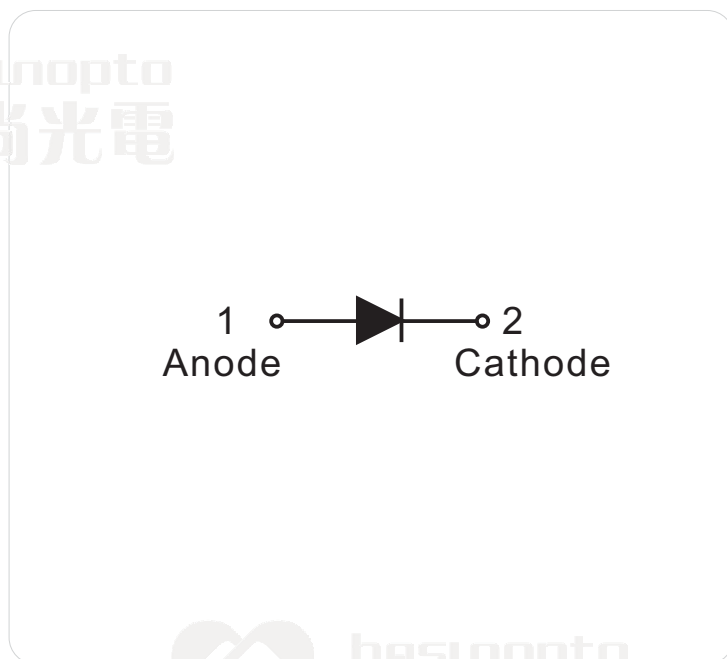
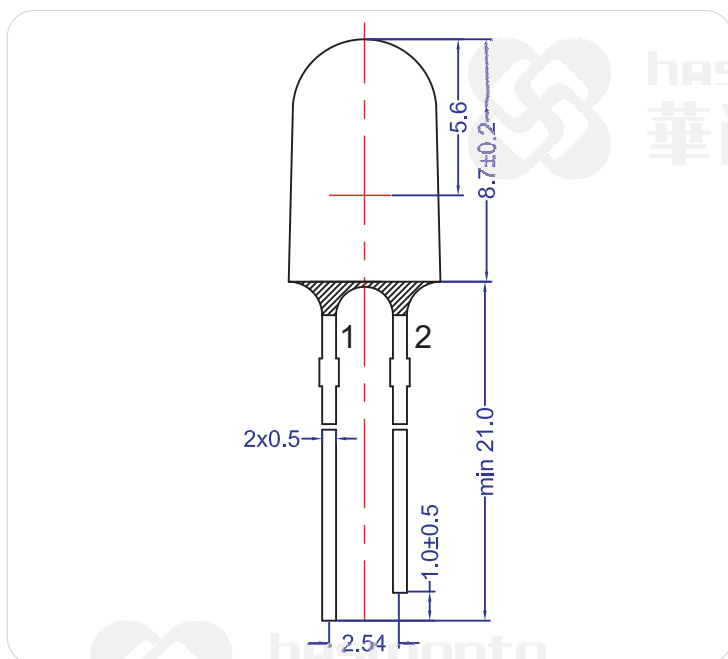
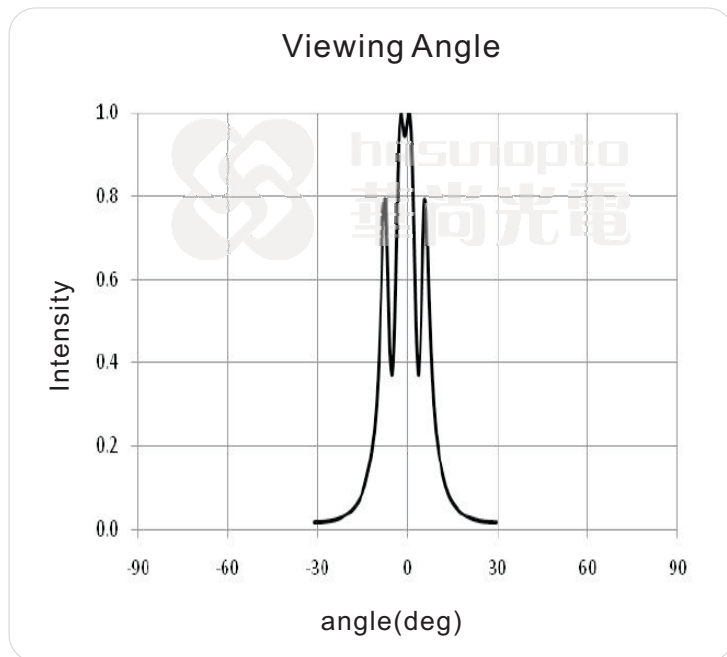
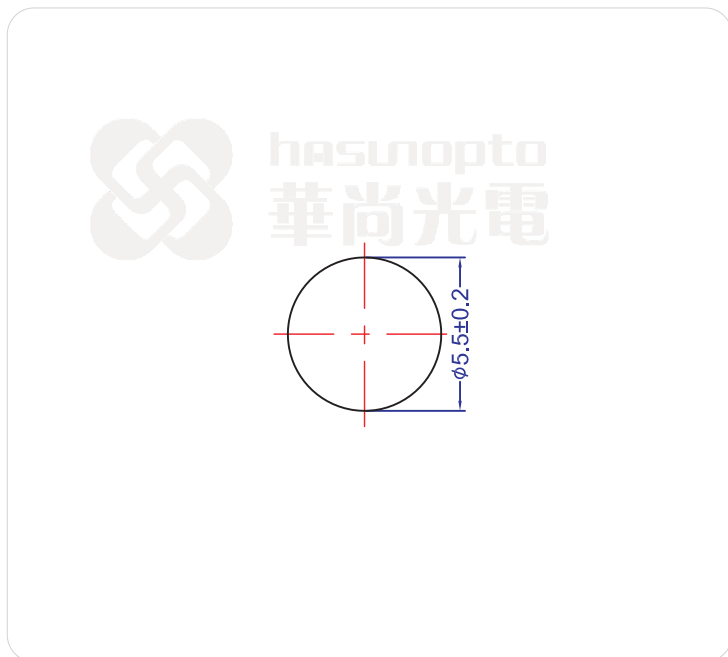
‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.
 ‡Soldering condition: Soldering condition must be completed within 3 seconds at 265°C
 ‡Termal resistance: junction – ambient, leads 7mm, soldered on PCB.

Electrical & Optical Characteristics (Ta=25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	Vf	IF=20mA		1.0	1.5	V
Reverse Current	IR	VR=5V			10	uA
Radiated Power	PO	IF=20mA	0.5	1.5		mW
Radiant Intensity	IE	IF=20mA		32		mW/sr
Peak Wavelength	λP	IF=20mA	1700	1750	1800	nm
Half Width	Δλ	IF=20mA		70		nm
Dominant Wavelength	λD	IF=20mA				nm
Viewing Half Angle	θ½	IF=20mA		±4		deg
Rise Time / Fall Time	Tr/tf	IF=20mA		10/10		ns

‡Radiated Power is measured by S8370-85.
 ‡Radiant Intensity is measured by Tektronix J-6512.

Dimension of LED Lamp



Unit:mm, Tolerance: ± 0.2