Lead (Pb) Free Product – RoHS Compliant

L1200-06

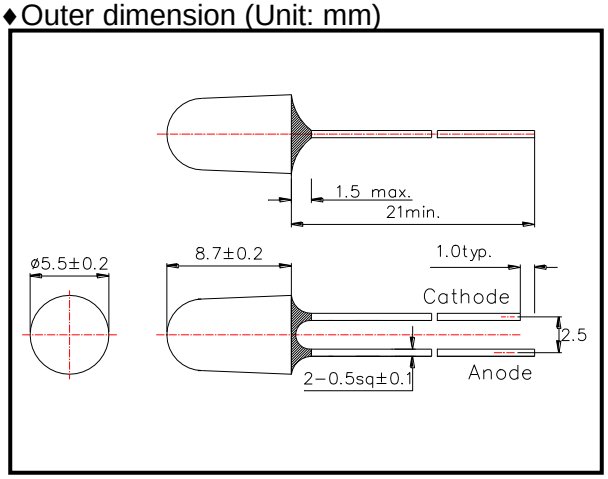
Infrared LED Lamp

L1200-06 is an InGaAsP LED mounted on a lead frame with a clear epoxy lens.
On forward bias, it emits a spectral band of radiation, which peaks at 1200nm.

♦Specifications

1) Product Name	Infrared LED Lamp
2) Type No.	L1200-06
3) Chip	
(1) Chip Material	InGaAsP
(2) Peak Wavelength	1200nm typ.
4) Package	
(1) Type	Φ5mm clear molding
(2) Package Resin	Epoxy Resin
(3) Lead Frame	Soldered (Lead Frame)

♦Outer dimension (Unit: mm)



♦Absolute Maximum Ratings [Ta=25°C]

Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	P_D	150	mW
Forward Current	I_F	100	mA
Pulse Forward Current	I_{FP}	1000	mA
Reverse Voltage	V_R	5	V
Thermal Resistance	R_{thja}	250	K/W
Junction Temperature	T_j	120	°C
Operating Temperature	T_{OPR}	-40 ~ +100	°C
Storage Temperature	T_{STG}	-40 ~ +100	°C
Soldering Temperature	T_{SOL}	250	°C

‡Pulse Forward Current condition: Duty=1% and Pulse Width=10us.
‡Soldering condition: Soldering condition must be completed within 5 seconds at 250°C

♦Electro-Optical Characteristics [Ta=25°C typ.]

Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	V_F	I_F=50mA		1.2	1.5	V
	V_{FP}	I_F=1A		1.8		
Radiated Power	P_O	I_F=50mA		6.0		mW
		I_F=1A		50		
Radiant Intensity	I_E	I_F=50mA		92		mW/sr
		I_F=1A		740		
Peak Wavelength	λ_P	I_F=50mA	1150	1200	1250	nm
Half Width	$\Delta\lambda$	I_F=50mA		85		nm
Viewing Half Angle	$\theta_{1/2}$	I_F=50mA		±8		deg.

‡Radiated Power is measured by G8370-85.
‡Radiant Intensity is measured by ANDO Optical Multi Meter AQ2140 & AQ2743.

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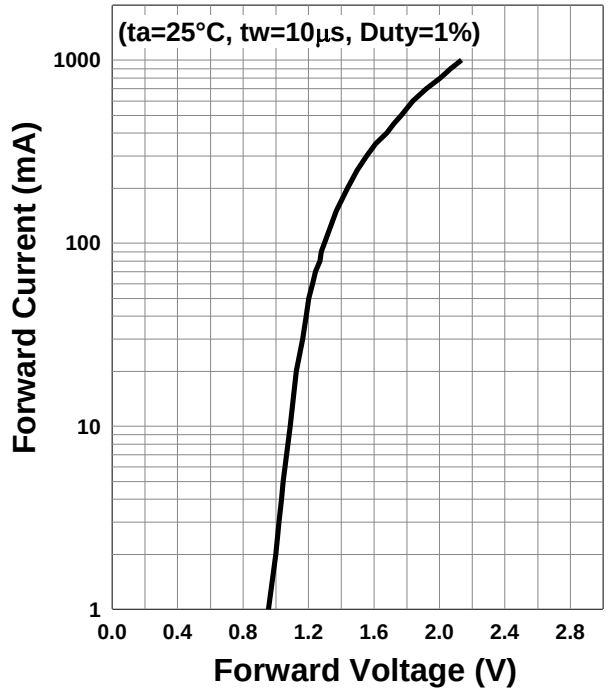
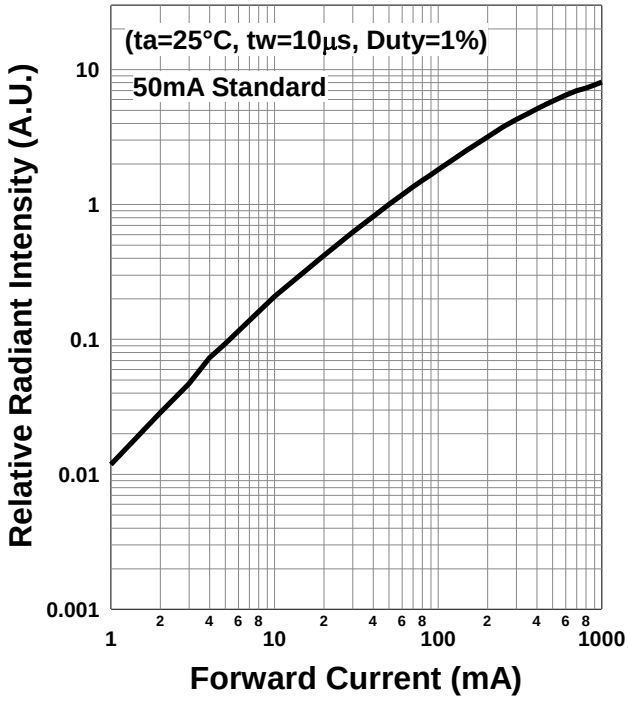
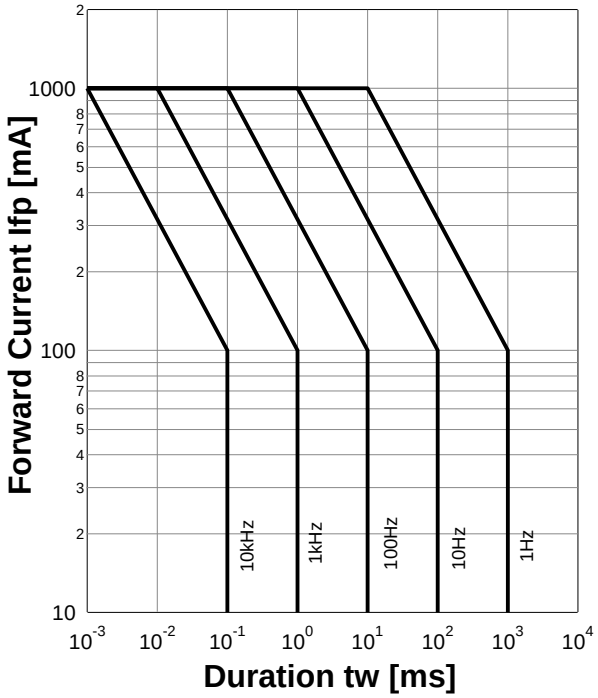
Forward Curent - Forward Voltage



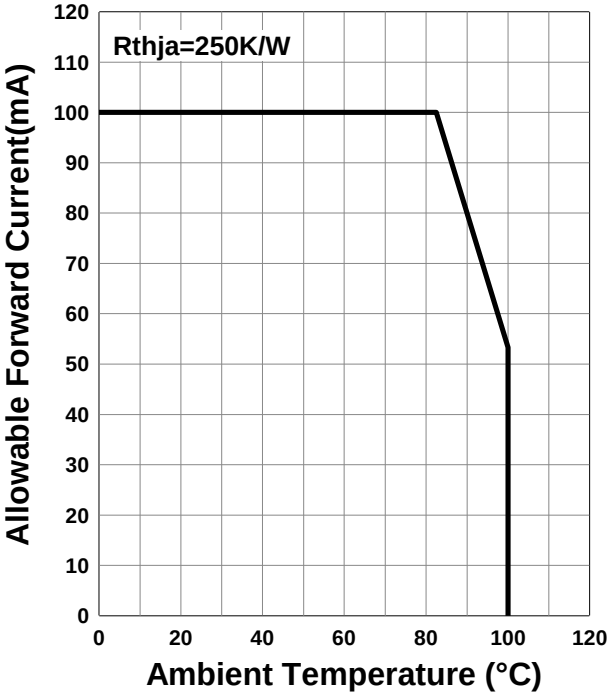
Relative Radiant Intensity - Forward Current



Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature



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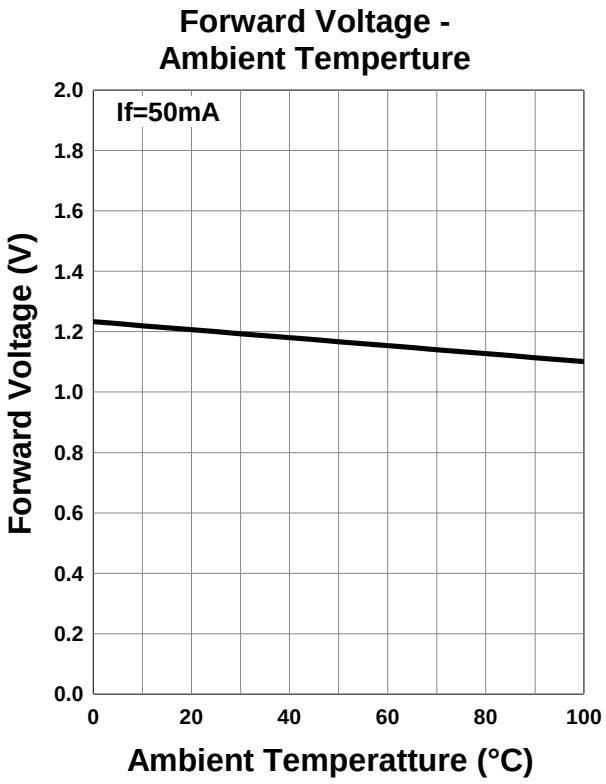

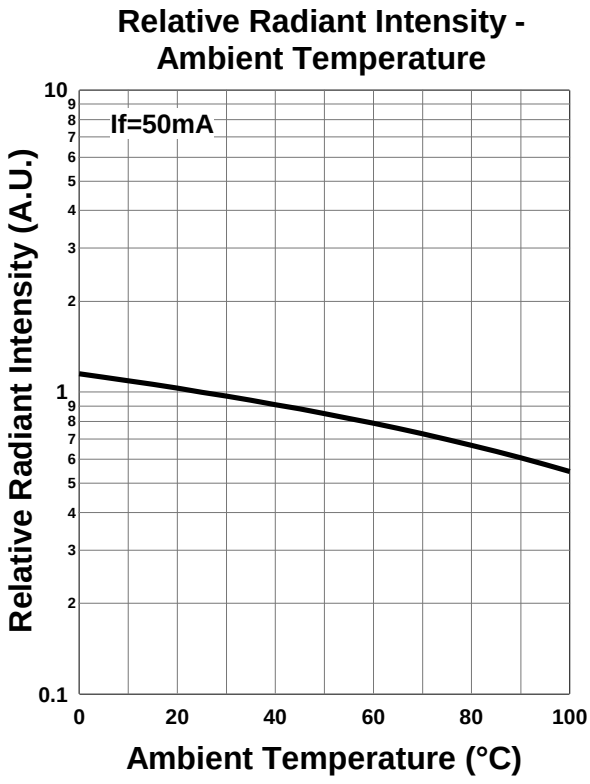

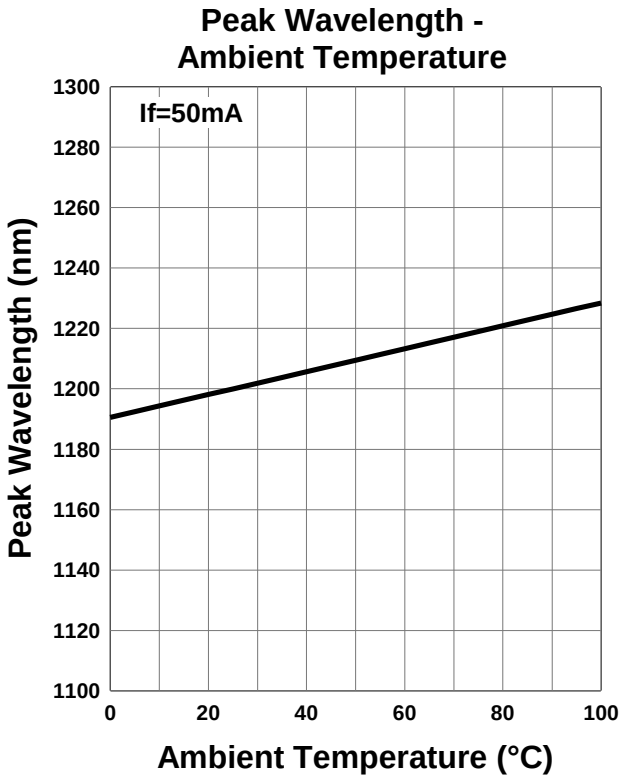

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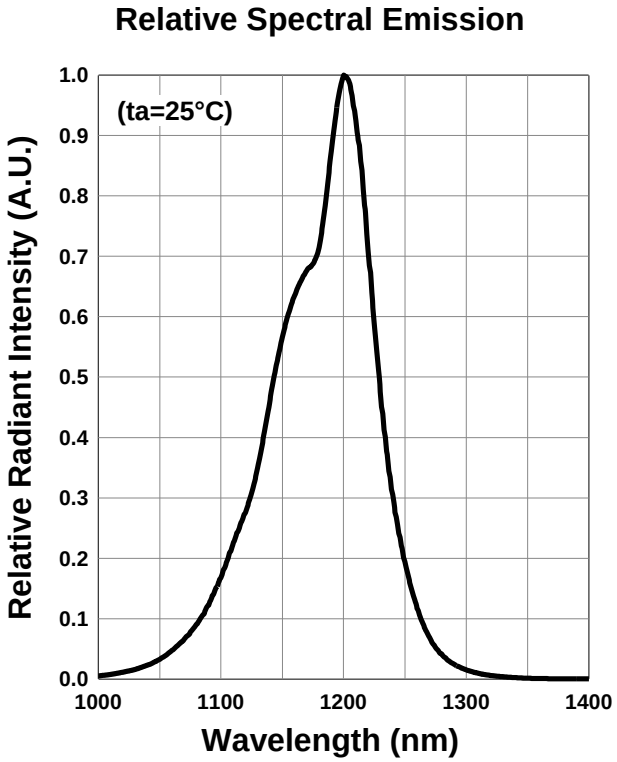

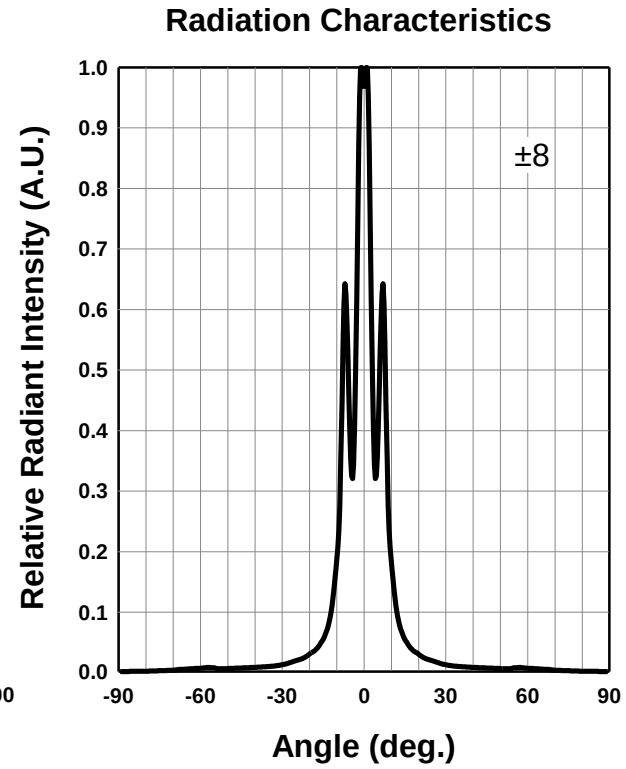

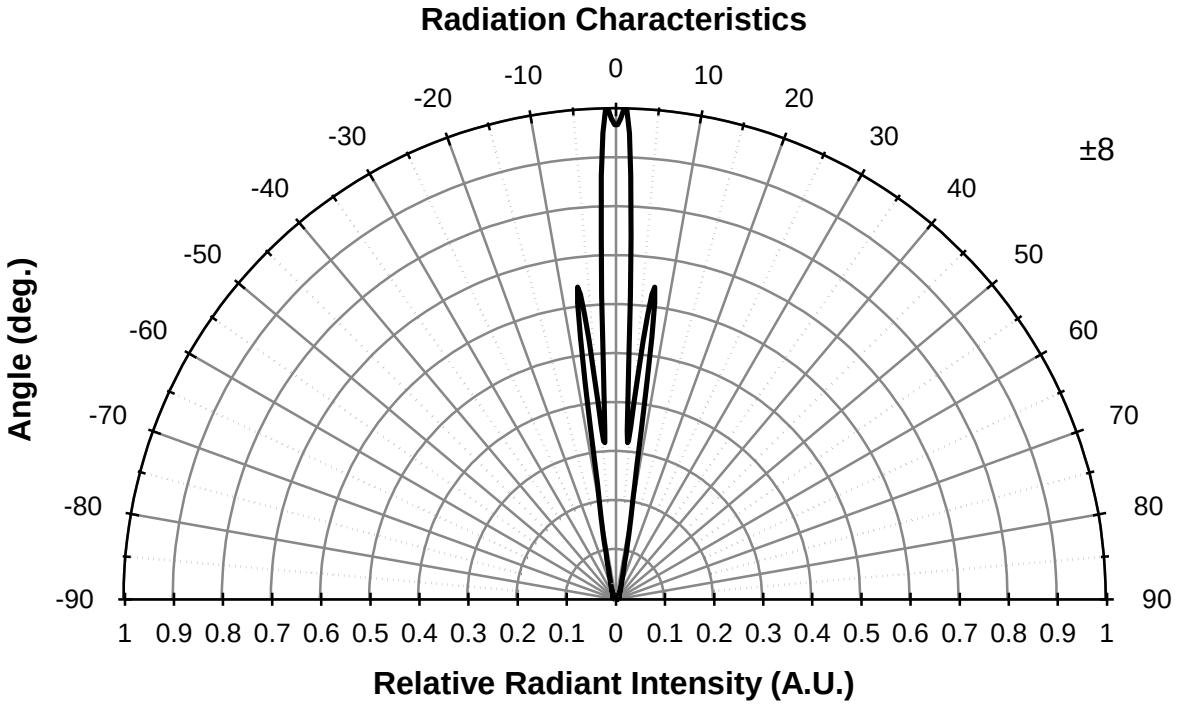

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Product data and parameters in this catalog are typical values based on reasonably up-to-date measurements. Product data and parameters may vary by user application and over time.

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2014.05

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