

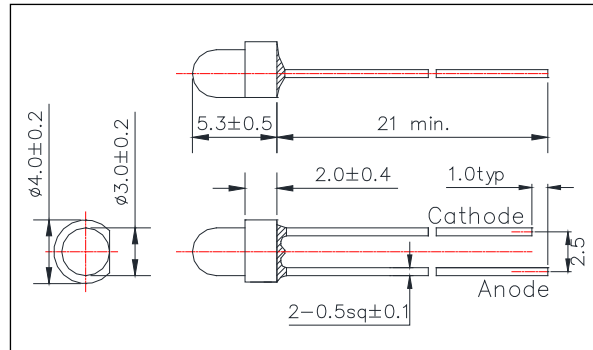
L680-36AU

Infrared LED Lamp

<Specifications>

- Chip Material: AlGaAs
- Chip Dimension: 350um x 350um
- Number of Chips: 1pcs
- Peak Wavelength: 680nm typ.
- Package Type: Φ3mm Clear Molding
- Lead Frame: Soldered (Lead Free)
- Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Ta=25°C]			
Item	Symbol	Maximum Rated Value	Unit
Power Dissipation	PD	120	mW
Forward Current	IF	50	mA
Pulse Forward Current*	IFP	200	mA
Reverse Voltage	VR	5	V
Junction Temperature	Tj	120	°C
Thermal Resistance	Rthjp	220	K/W
Operating Temperature	TOPR	-40 ~ +100	°C
Storage Temperature	TSTG	-40 ~ +100	°C
Soldering Temperature**	TSOL	265	°C

* Duty=1% and Pulse Width=10us.

** Soldering condition must be completed within 3 second at 265°C.

Electro-Optical Characteristics[Tc=25°C]						
Item	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=20mA		1.8	2.3	V
		IF=50mA, T=20ms		2.0		
	VFP	IFP200mA		2.8		
Total Radiated Power*	PO	IF=20mA		5.8		mW
		IF=50mA, T=20ms		16		
		IFP200mA		67		
Radiant Intensity**	IE	IF=20mA		19		mW/sr
		IF=50mA, T=20ms		52		
		IFP200mA		220		
Peak wavelength	λ_P	IF=20mA	670		690	nm
Half Width	$\Delta\lambda$	IF=20mA		24		nm
Viewing Half Angle	$\theta_{1/2}$	IF=20mA		± 19		deg
Rise Time	tr	IF=20mA		10		ns
Fall Time	tf	IF=20mA		10		ns

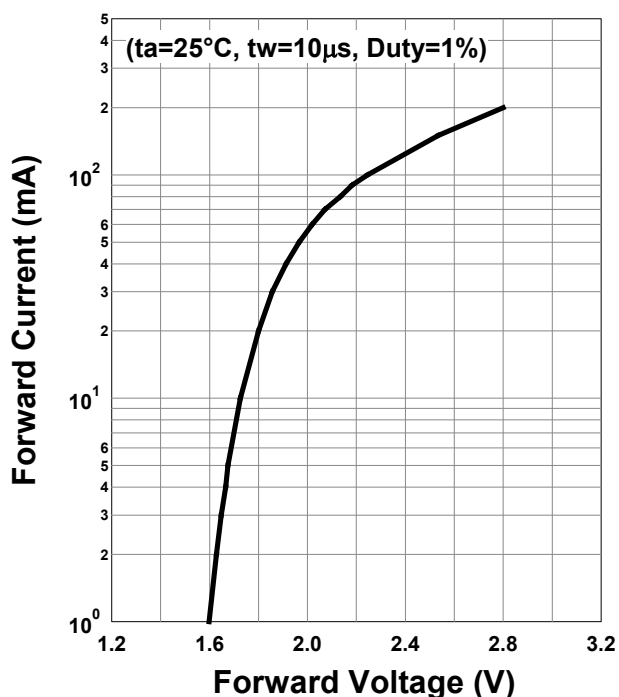
* Measured by S3584-08

** Measured by CIE127-2007 Condition B.

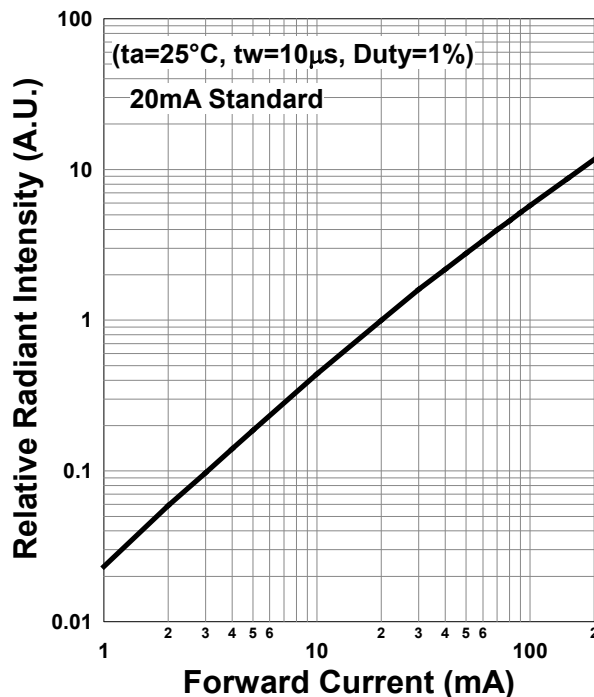


Typical Characteristic Curves

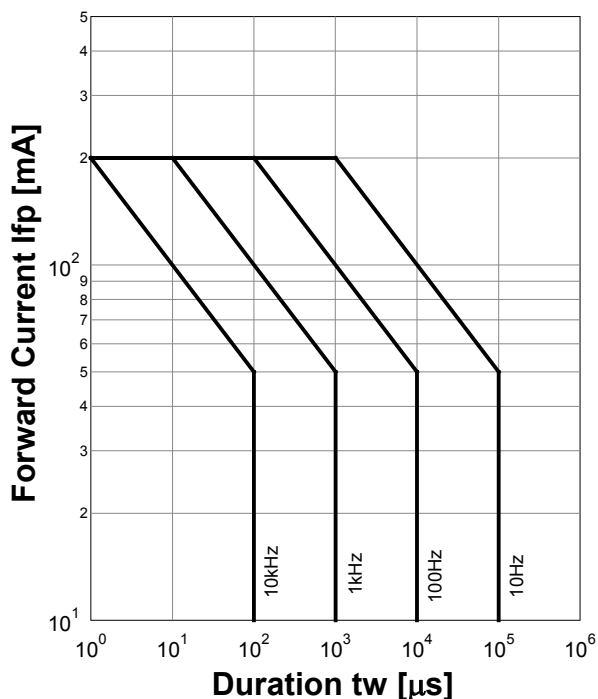
Forward Current - Forward Voltage



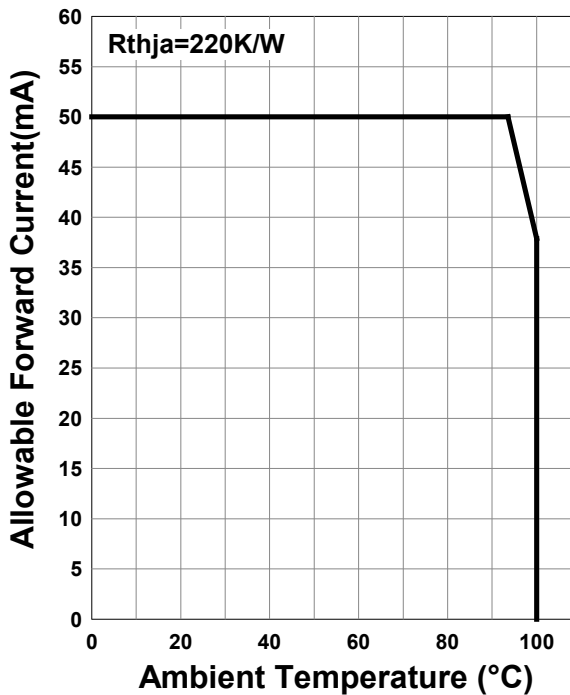
Relative Radiant Intensity - Forward Current

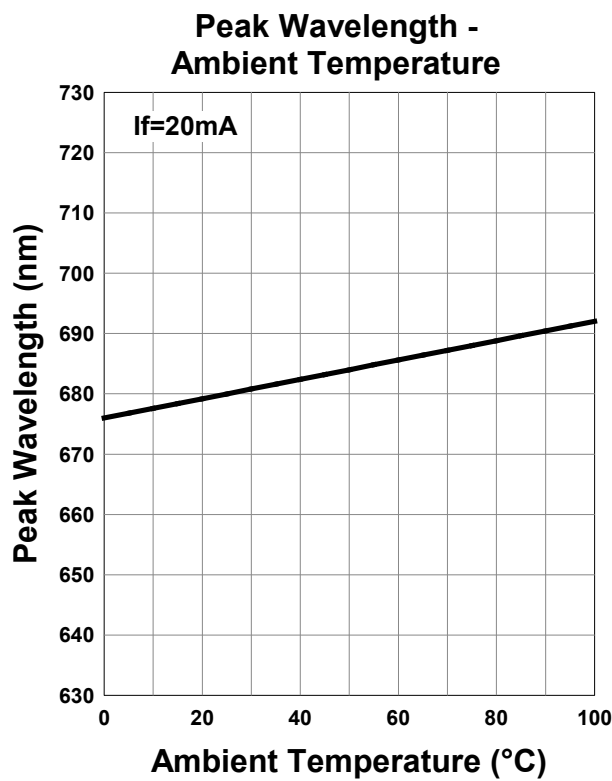
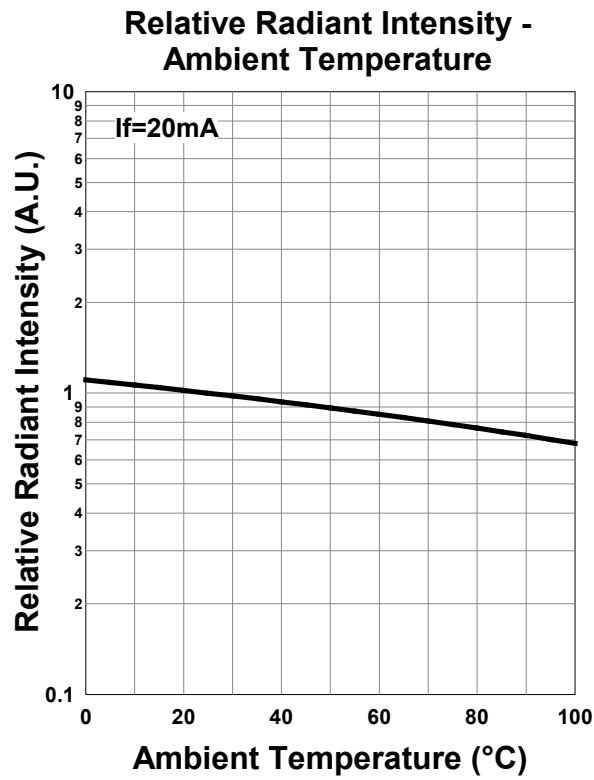
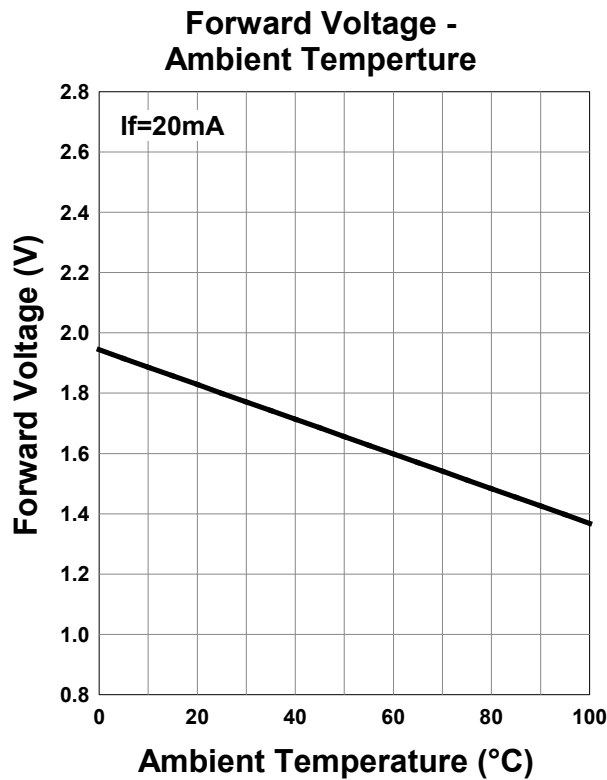


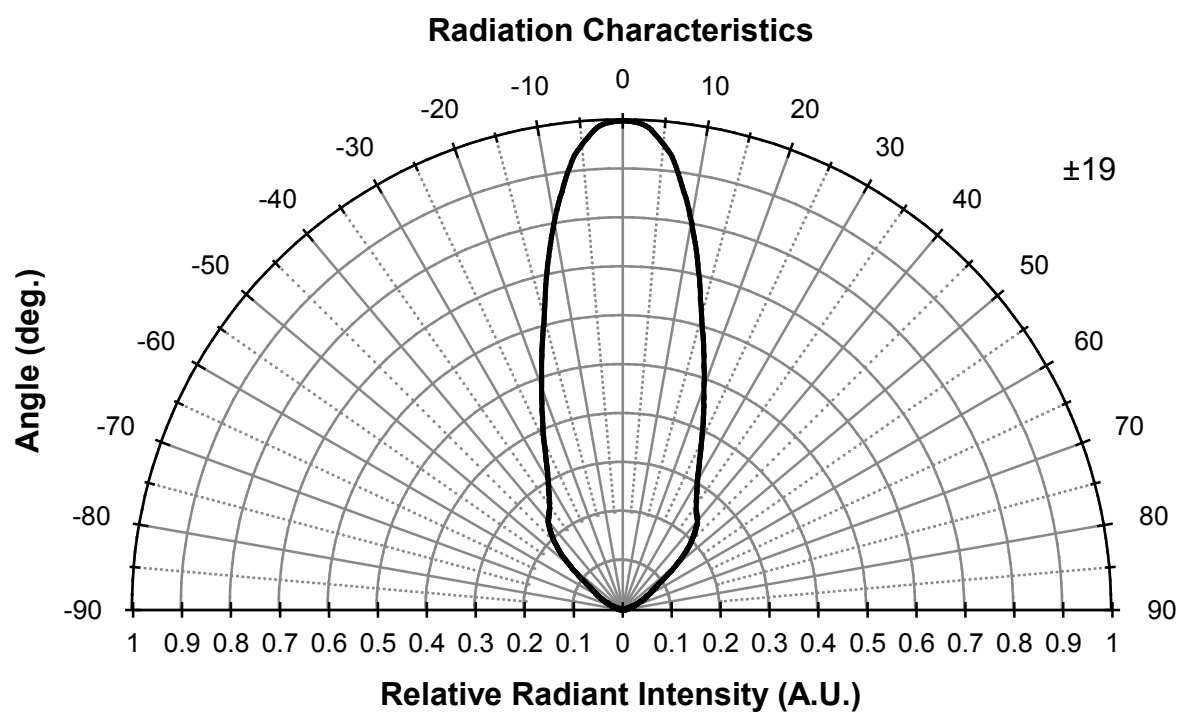
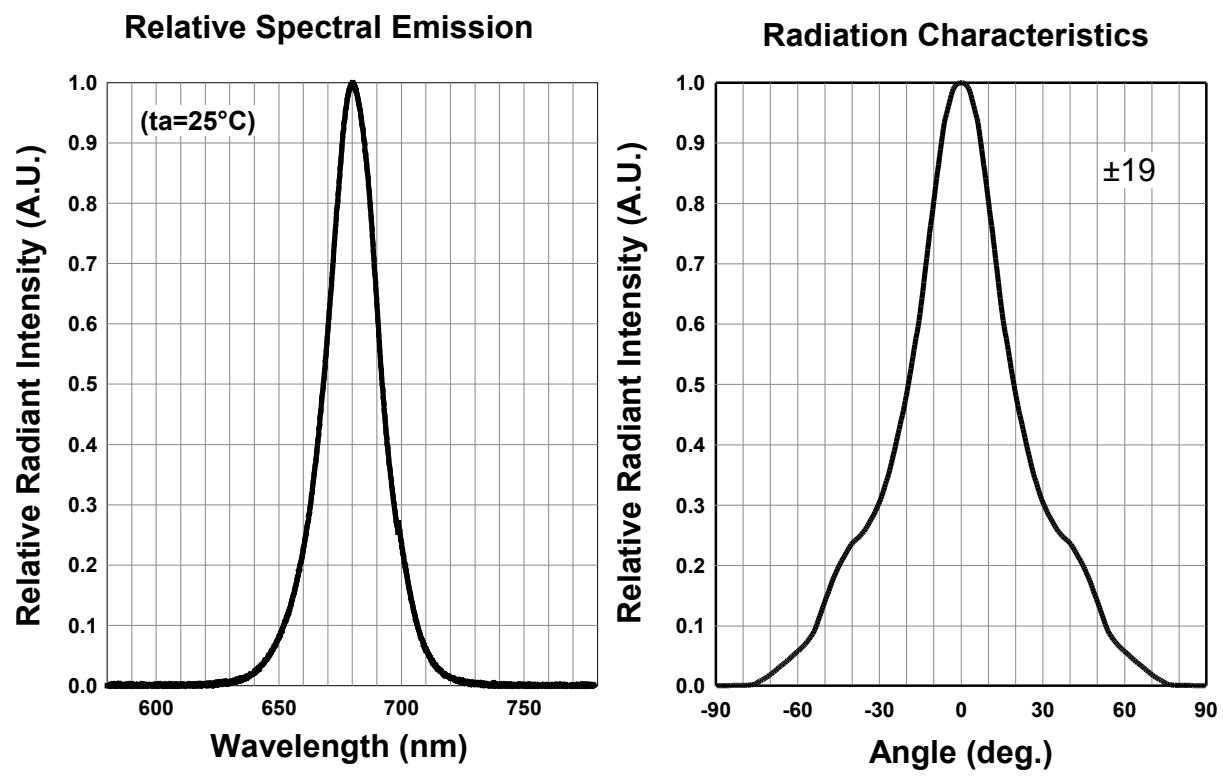
Forward Current - Pulse Duration



Allowable Forward Current - Ambient Temperature







Disclaimer

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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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