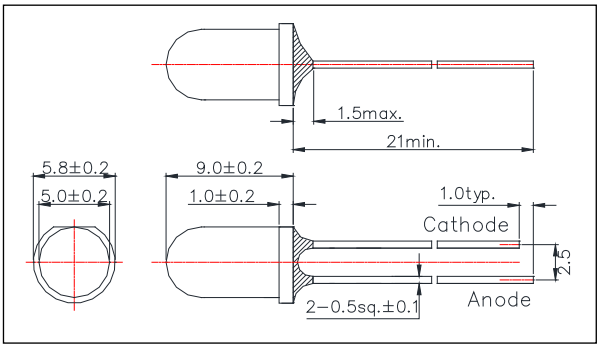
L720-01AU

Infrared LED Lamp

<Specifications>

- Chip Material: AlGaAs
- Chip Dimension: 350um x 350um
- Number of Chips: 1pcs
- Peak Wavelength: 720nm typ.
- Lead Framme : Soldered (Lead Free)
- Package Type: Φ5mm Clear Molding
- Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings[Tc=25℃]			
Item	Symbol	Value	Unit
Power Dissipation	PD	180	mW
Forward Current	IF	75	mA
Pulse Forward Current*	IFP	300	mA
Reverse Voltage	VR	5	V
Thermal Resistance	Rthja	80	K/W
Junction Temperature	Tj	120	℃
Operating Temperature	TOPR	-40 ~+100	℃
Storage Temperature	TSTG	-40 ~ +100	℃
Soldering Temperature**	TSOL	250	℃

* Duty 1% and Pulse Width = 10us.

** Soldering condition must be completed within 5 second at 250 ℃.

Electro-Optical Characteristics [Tc=25℃]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=20mA		1.7	2.3	V
	VFP	IFP=300mA		3.7		
Total Radiated Power*	PO	IF=20mA		7.0		mW
		IFP=300mA		100		
Radiant Intensity**	IE	IF=20mA		53		mW/sr
		IFP=300mA		800		
Peak Wavelength	λP	IF=20mA	710		730	nm
Half Width	Δλ	IF=20mA		23		nm
Viewing half Angle	θ1/2	IF=20mA		±9		deg
Rise Time	tr	IF=20mA		10		ns
Fall Time	tf	IF=20mA		15		ns

* Measured by S3584-08

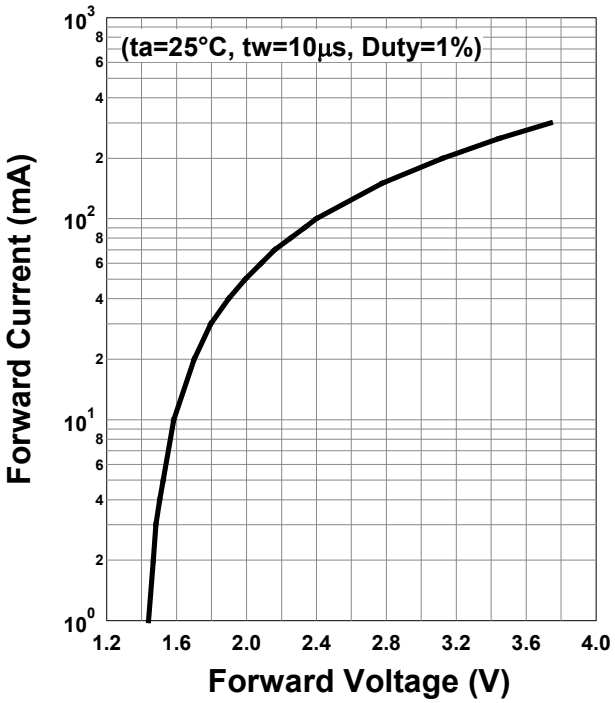
** Measured by CIE127-2007 Condition B

RoHS Compliant

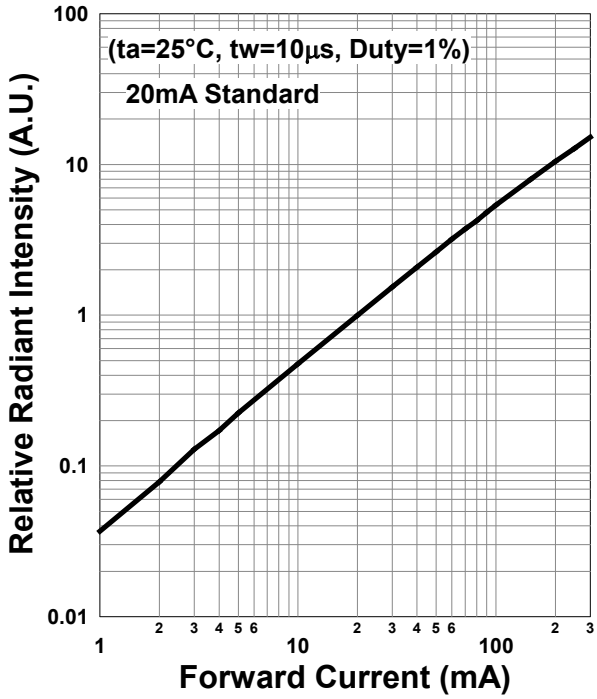
Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Tel: 408-330-0650 | Fax: 408-330-0655 | Email: sales@tech-led.com

Typical Characteristic Curves

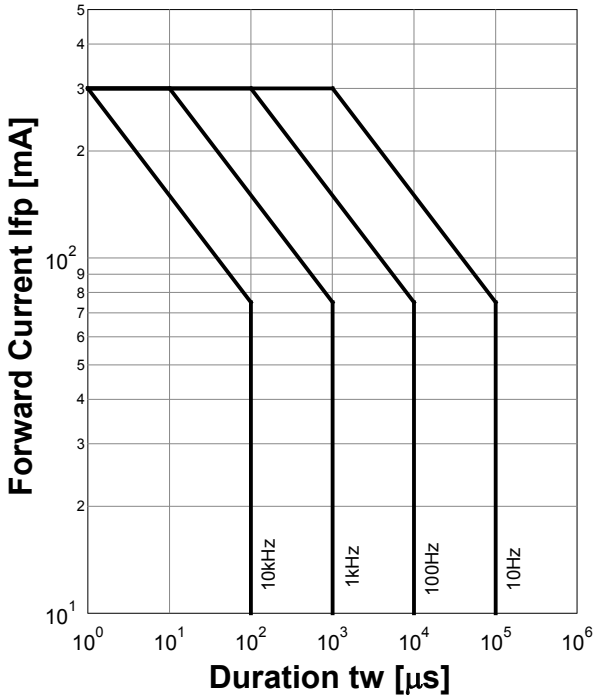
Forward Curent - Forward Voltage



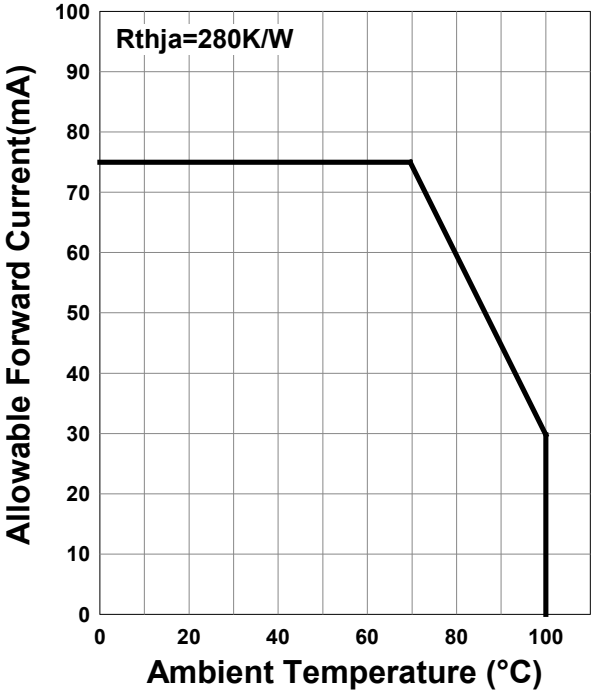
Relative Radiant Intensity - Forward Current

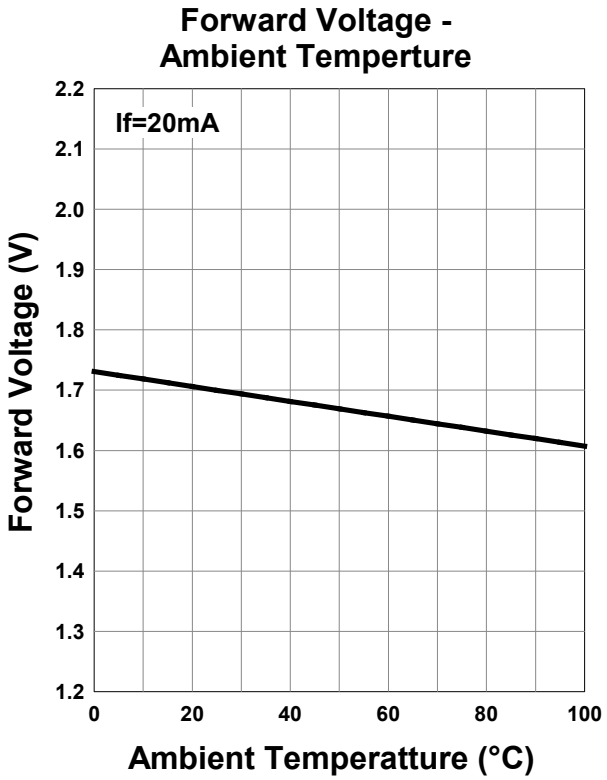


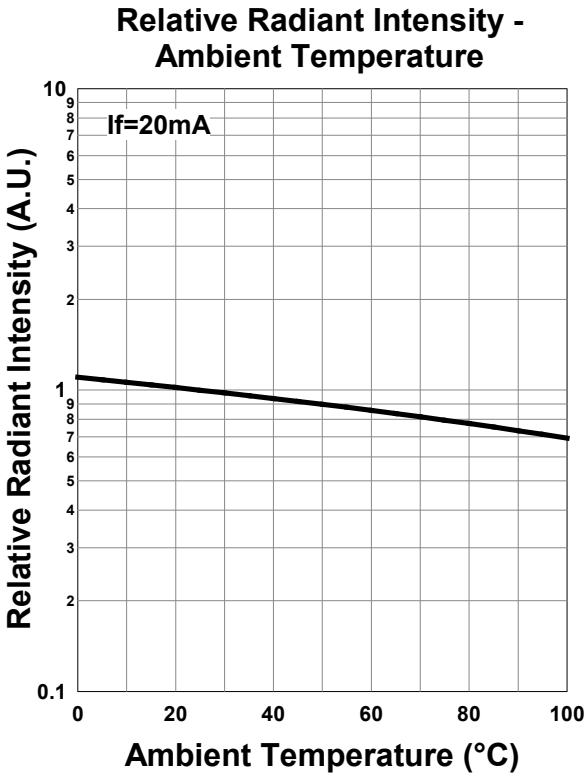
Forward Current - Pulse Duration

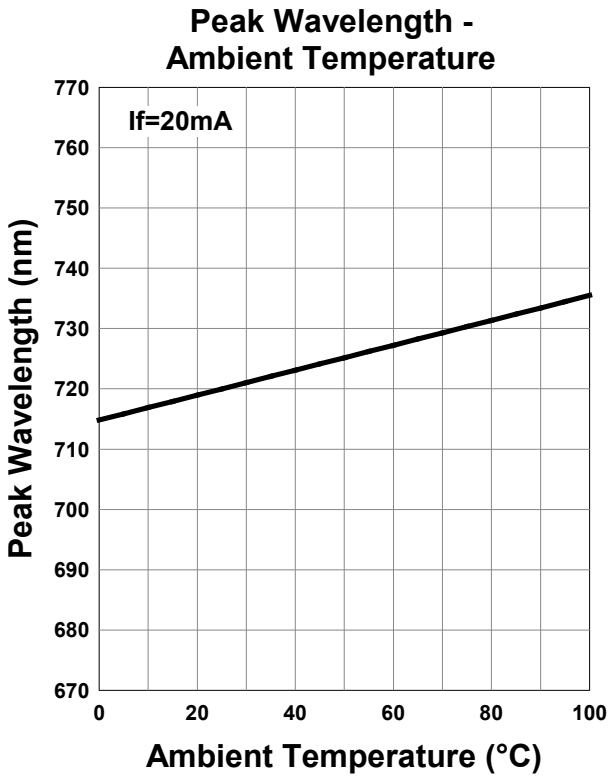


Allowable Forward Current - Ambient Temperature

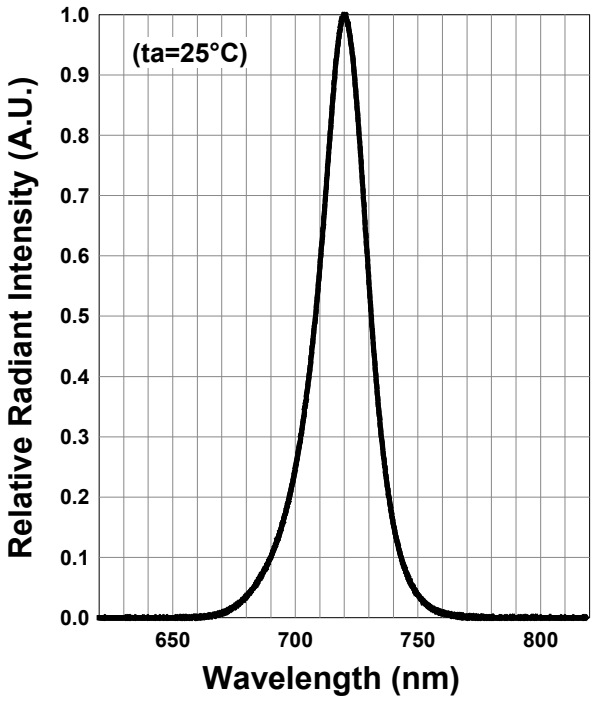



Forward Voltage -
Ambient Temperture
If=20mA
Forward Voltage (V)
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
0
20
40
60
80
100
Ambient Temperatture (°C)

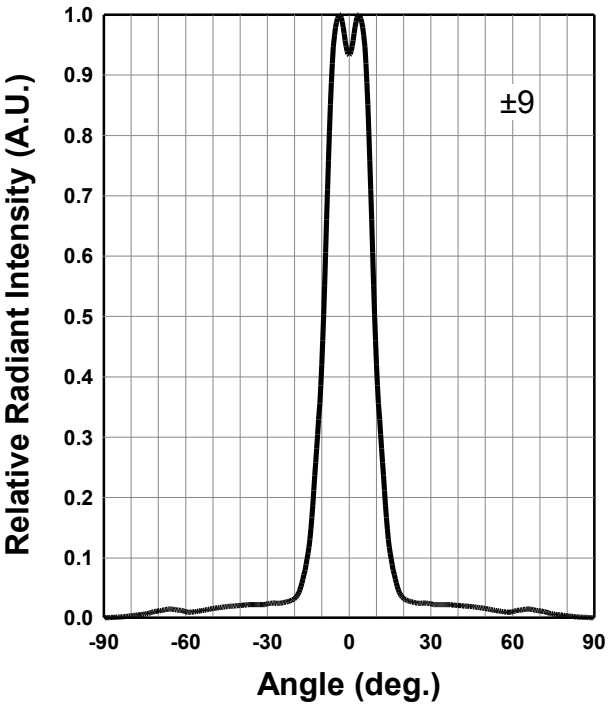

Relative Radiant Intensity -
Ambient Temperature
If=20mA
Relative Radiant Intensity (A.U.)
10
1
0.1
0
20
40
60
80
100
Ambient Temperature (°C)


Peak Wavelength -
Ambient Temperature
If=20mA
Peak Wavelength (nm)
770
760
750
740
730
720
710
700
690
680
670
0
20
40
60
80
100
Ambient Temperature (°C)

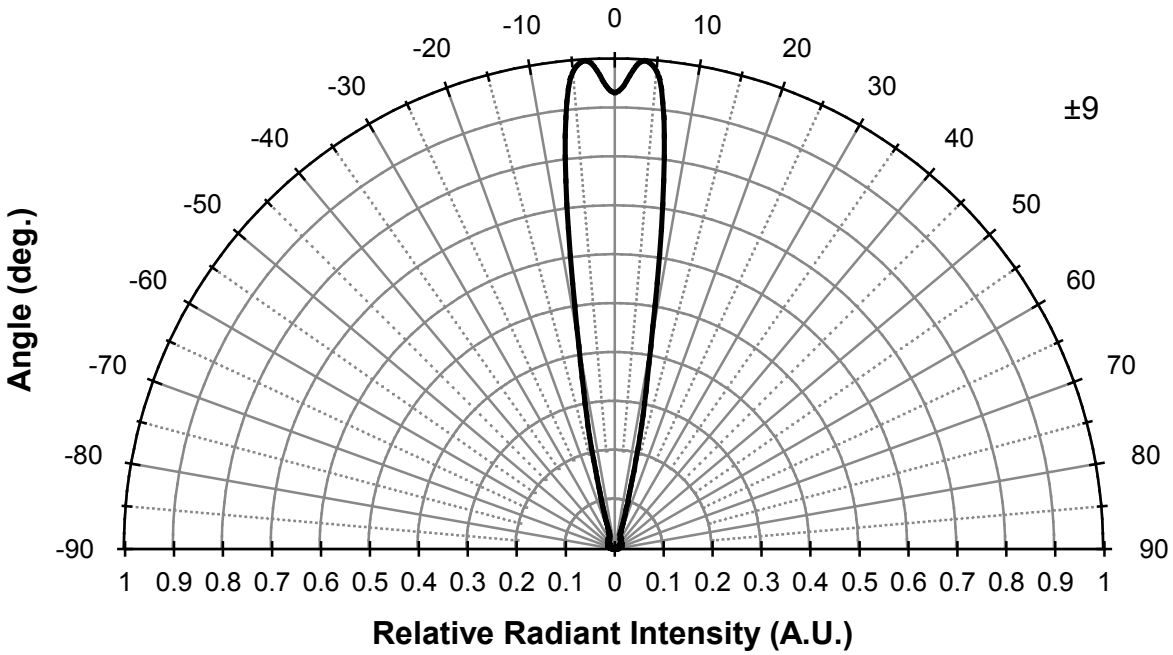
Relative Spectral Emission



Radiation Characteristics



Radiation Characteristics



Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Tel: 408-330-0650 | Fax: 408-330-0655 | Email: sales@tech-led.com

Disclaimer

Product specifications and data shown in this product catalog are subject to change without notice for the purposes of improving product performance, reliability, design, or otherwise.

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.

Products shown in this catalog are intended to be used for general electronic equipment. Products are not guaranteed for applications where product malfunction or failure may cause personal injury or death, including but not limited to life-supporting / saving devices, medical devices, safety devices, airplanes, aerospace equipment, automobiles, traffic control systems, and nuclear reactor control systems.

2016.08

Marubeni America Corporation | 3945 Freedom Circle, Suite 1000, Santa Clara, CA95054
Tel: 408-330-0650 | Fax: 408-330-0655 | Email: sales@tech-led.com