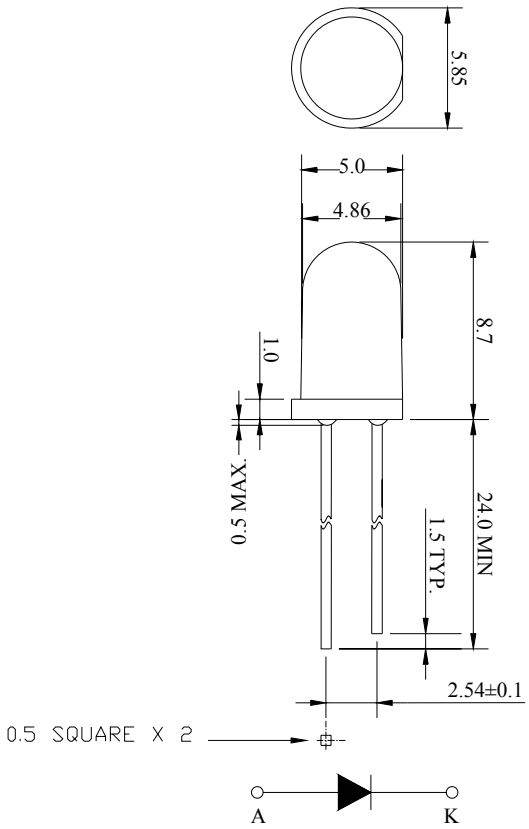
Description

This hyper red lamp is made with AlGaInP chip and water clear epoxy resin.



Notes:

1. All dimensions are in mm.
2. Tolerance is ± 0.25mm unless otherwise noted.

Description

Part No.	LED Chip		Lens Color
	Material	Emitting Color	
L500C8-L-30	AlGaInP	Hyper red	Water clear

Absolute Maximum Ratings at Ta=25℃

Parameter	Symbol	Rating	Unit
Power Dissipation	PD	75	mW
Reverse Voltage	VR	5	V
D.C. Forward Current	If	30	mA
Reverse (Leakage) Current	Ir	100	μA
Peak Current(1/10Duty Cycle,0.1ms Pulse Width.)	If(Peak)	100	mA
Operating Temperature Range	Topr	-25 to +85	℃
Storage Temperature Range	Tstg	-40 to +100	℃
Soldering Temperature(1.6mm from body)	Tsol	Dip Soldering : 260℃ for 5 sec. Hand Soldering : 350℃ for 3 sec.	
Electrostatic discharge	ESD	6000	V

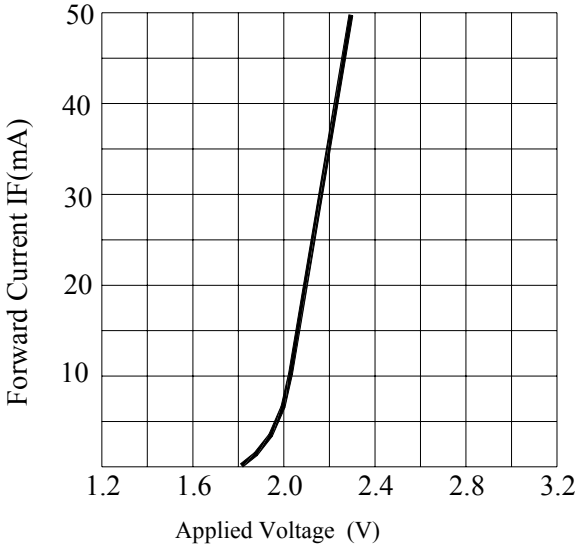
Electrical and Optical Characteristics:

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Luminous Intensity	Iv	If=20mA	4290	10000		mcd
Forward Voltage	Vf	If=20mA		2.1	2.5	V
Peak Wavelength	λp	If=20mA		632		nm
Dominant Wavelength	λd	If=20mA		625		nm
Reverse (Leakage) Current	Ir	Vr=5V			100	μA
Viewing Angle	2 θ 1/2	If=20mA		30		deg
Spectrum Line Halfwidth	Δλ	If=20mA		20		nm

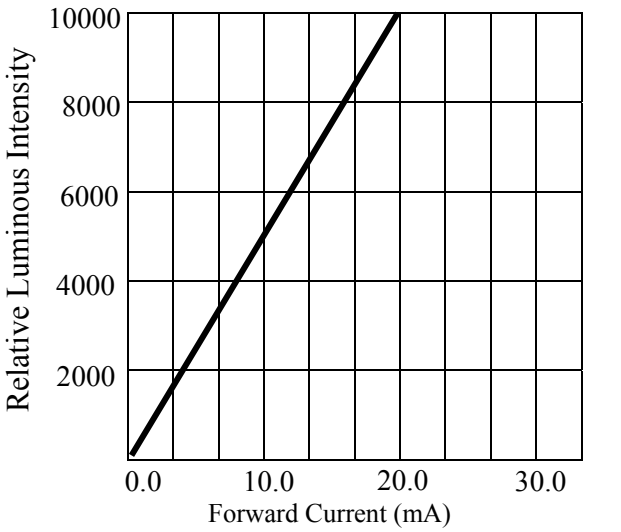
Notes:1. The datas tested by IS tester.

2. Customer's special requirements are also welcome.

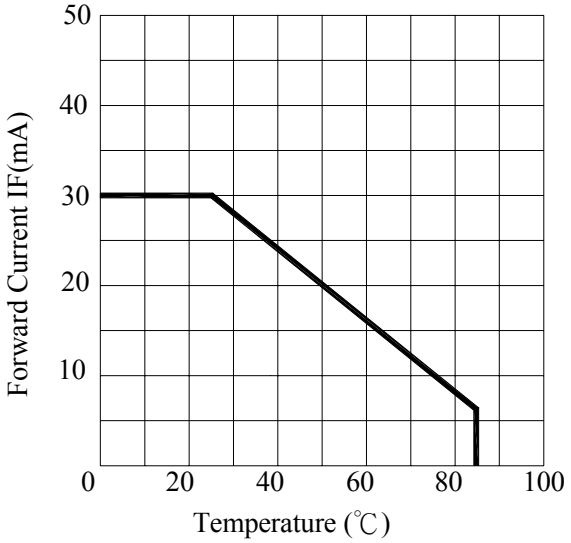
Typical Electrical / Optical Characteristics Curves :



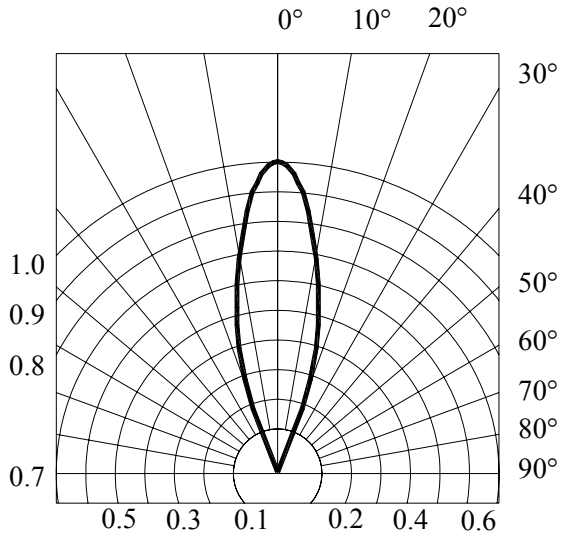
FORWARD CURRENT VS.APPLIED VOLTAGE



FORWARD CURRENT VS. LUMINOUS INTENSITY



FORWARD CURRENT VS. AMBIENT TEMPERATURE



RADIATION DIAGRAM