

Part Number: L-7113SEC-J3-TNR2.54-RY

Hyper Red

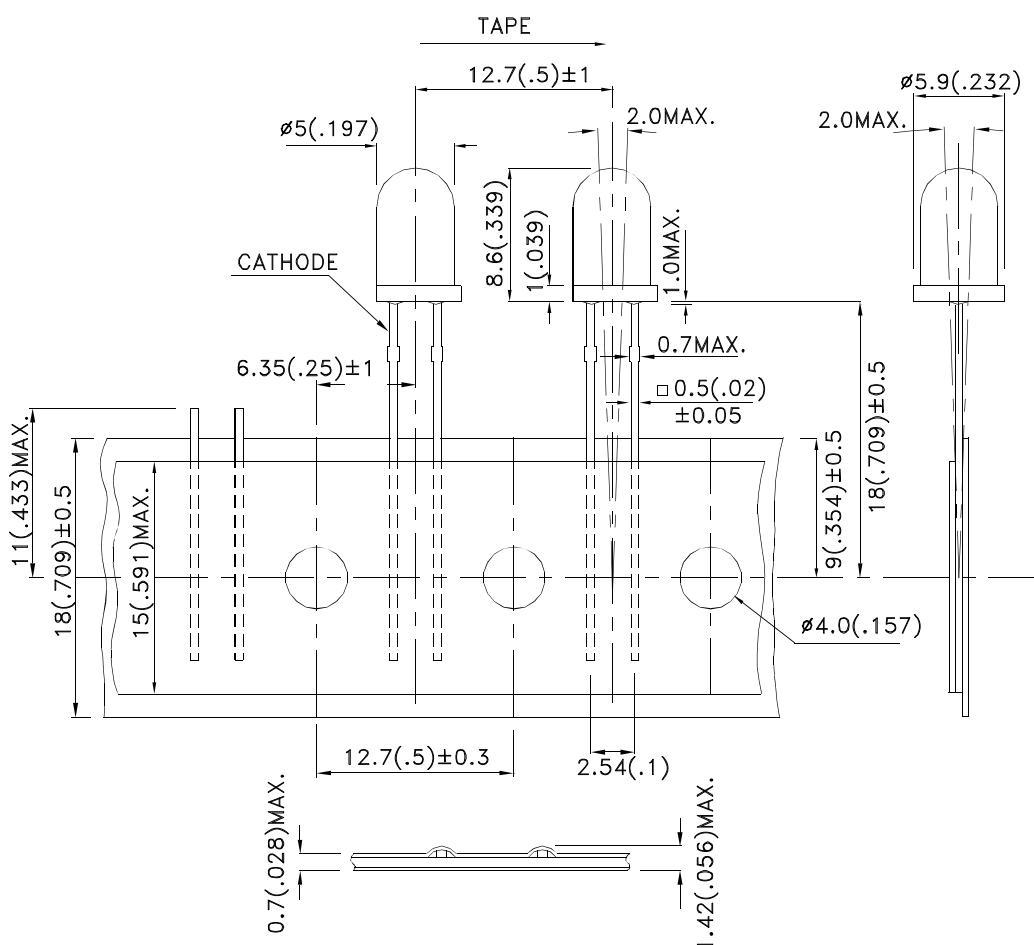
Features

- For the use of automatic insertion machine.
- 2.54mm straight lead.
- LED lamps also available in tape & box package.
- RoHS compliant.

Description

The Hyper Red device is based on light emitting diode chip made from AlGaNp.

Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Selection Guide

Part No.	Dice	Lens Type	I _v (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Typ.	
L-7113SEC-J3-TNR2.54-RY	Hyper Red (AlGaInP)	WATER CLEAR	6700	12000	20°

Notes:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red	640		nm	I _F =20mA
λD [1]	Dominant Wavelength	Hyper Red	625		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Hyper Red	25		nm	I _F =20mA
C	Capacitance	Hyper Red	27		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Hyper Red	2.2	2.8	V	I _F =20mA
I _R	Reverse Current	Hyper Red		10	uA	V _R = 5V

Notes:

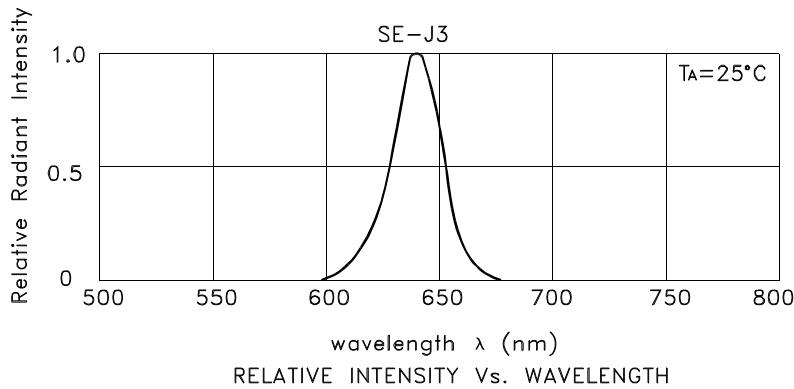
1. Wavelength: +/-1nm.
2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Hyper Red	Units
Power dissipation	84	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 3 Seconds	
Lead Solder Temperature [3]	260°C For 5 Seconds	

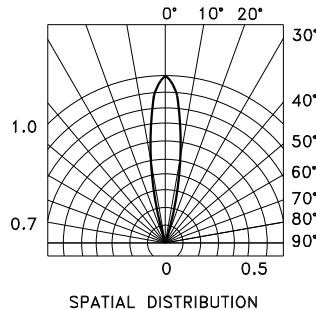
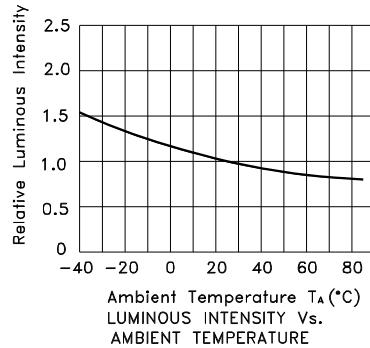
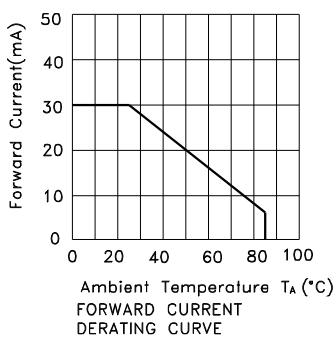
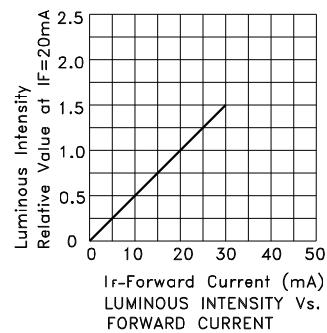
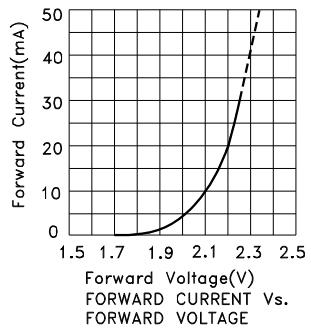
Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.



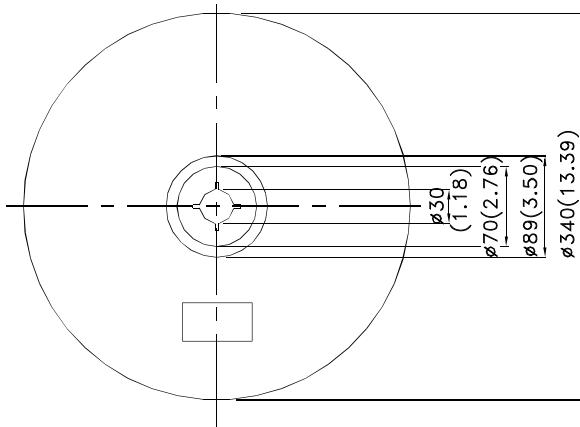
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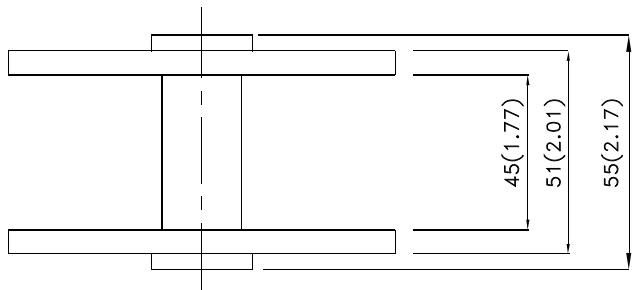
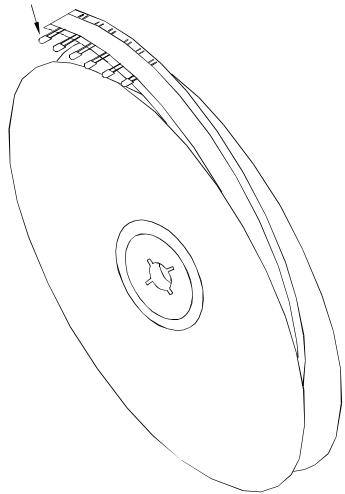


Reel Dimensions

L-7113SEC-J3-TNR2.54-RY



ANODE LEAD
LEAVES THE REEL FIRST



Kingbright

PACKING & LABEL SPECIFICATIONS

L-7113SEC-J3-TNR2.54-RY

