

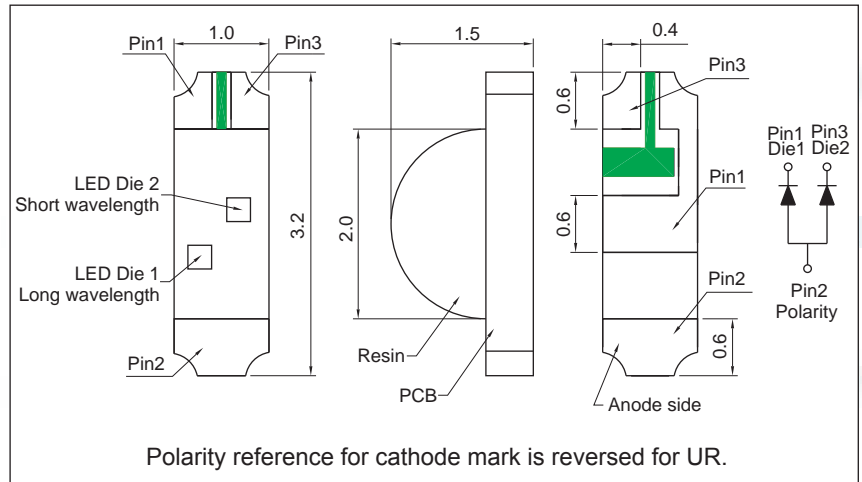
### Features

- Chip LED (3.2x1.5x1.0)
- Super compact
- Bi-color

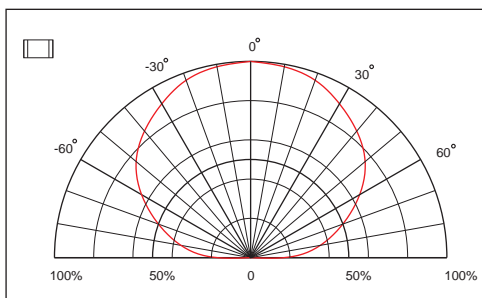
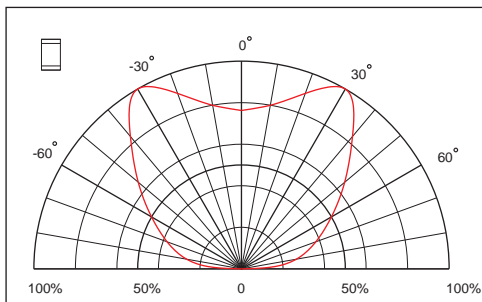


### Package Outline Dimensions

(Unit:mm Tolerance:+/-0.1)

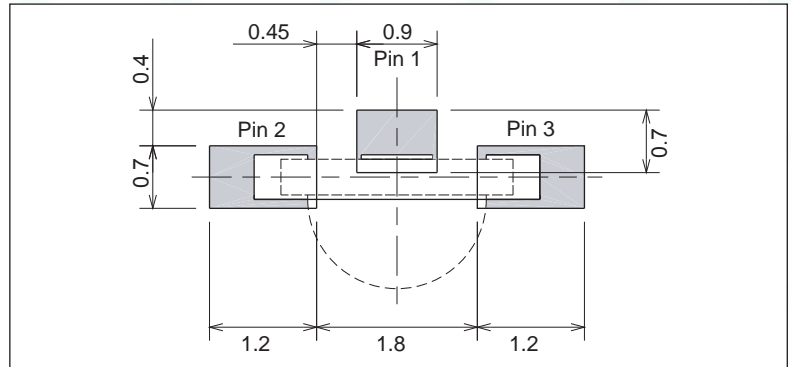


### Directive Characteristics



### Recommended Soldering Pattern

Unit: mm



### Absolute Maximum Ratings

(Ta=25°C)

Item	Symbol	GaP	GaAsP	AllnGaP	InGaN	Unit
Power Dissipation	P <sub>D</sub>	65	65	72	78	mW
DC Forward Current	I <sub>F</sub>	25	25	30	20	mA
Pulsed Forward Current	I <sub>FP</sub> *	100	100	100	80	mA
Reverse Voltage	V <sub>R</sub>	5				V
Operating Temperature	T <sub>OP</sub>	-30 to 80				°C
Storage Temperature	T <sub>ST</sub>	-40 to 85				°C

\* 0.1msec pulse, 10% duty cycle.

# Electrical / Optical Characteristics

(Ta=25°C)

Part Number	Emitting color	Material	Forward Voltage(V <sub>F</sub> )		Wavelength (nm) typ.			Luminous Intensity (mcd)*		I <sub>F</sub> (mA)	Viewing Angle 2θ <sub>1/2</sub>
			typ.	max.	D	P	Δ	min.	typ.		
HT-210SD/YG	Super Bright Orange	GaAsP	2.1	2.6	629	642	35	3.6	9	20	x=140 y=120
	Yellow Green	GaP	2.2	2.6	573	568	30	9	16	20	x=140 y=120
HT-210Y/YG	Yellow	GaAsP	2.1	2.6	590	589	35	5.6	9	20	x=140 y=120
	Yellow Green	GaP	2.2	2.6	573	568	30	9	16	20	x=140 y=120
HT-210D/YG	Amber	GaAsP	2.1	2.6	608	610	35	3.6	9	20	x=140 y=120
	Yellow Green	GaP	2.2	2.6	573	568	30	9	16	20	x=140 y=120
HT-210USD/YUG	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	56	120	20	x=140 y=120
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20	x=140 y=120
HT-210UY/YUG	Ultra Bright Yellow	AllnGaP	1.9	2.4	589	593	15	36	120	20	x=140 y=120
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20	x=140 y=120
HT-210UD/YUG	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	56	120	20	x=140 y=120
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20	x=140 y=120
HT-210USD/NB	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	56	120	20	x=140 y=120
	Blue	InGaN	3.3	3.9	470	468	40	36	60	20	x=140 y=120
HT-210UY/NB	Ultra Bright Yellow	AllnGaP	1.9	2.4	589	593	15	36	120	20	x=140 y=120
	Blue	InGaN	3.3	3.9	470	468	40	36	60	20	x=140 y=120
HT-210UD/NB	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	56	120	20	x=140 y=120
	Blue	InGaN	3.3	3.9	470	468	40	36	60	20	x=140 y=120

\*Per NIST standards

