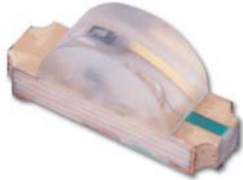
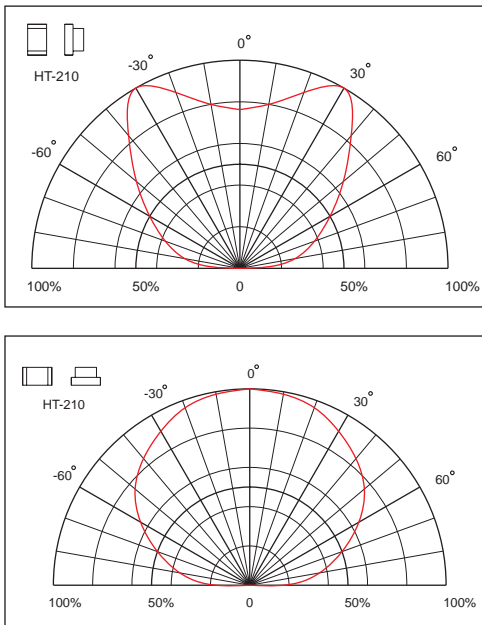


Characters

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

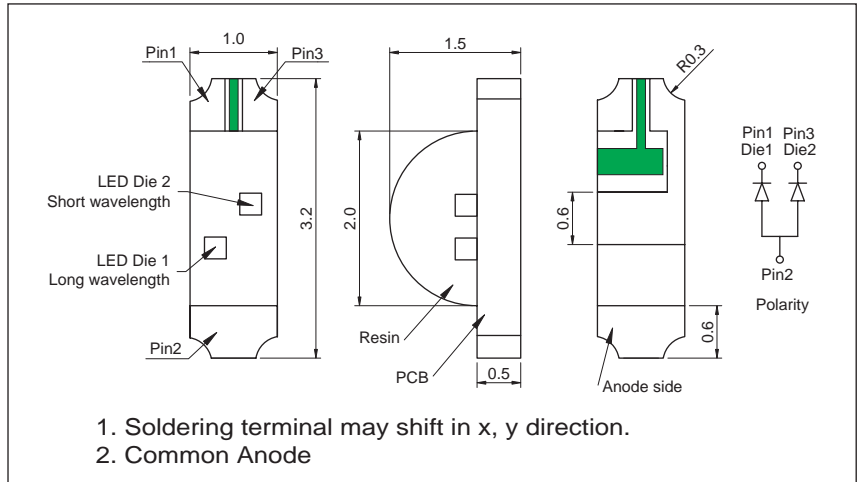


Directive Characteristics



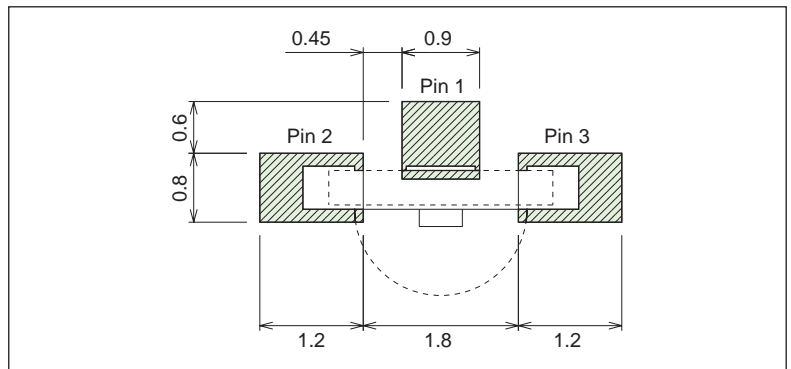
Package Outline Dimensions

(Unit:mm Tolerance:+/-0.1)



Recommended Soldering Pattern

Unit: mm



Absolute Maximum Ratings

(Ta=25 °C)

Item	Symbol	Value				Unit
		GaP	GaAsP	AllnGaP	InGaN	
Power Dissipation	P _D	65	65	72	78	mW
DC Forward Current	I _F	25	25	30	20	mA
Pulsed Forward Current	I _{FP} *	100	100	100	80	mA
Reverse Voltage (I _R = 100uA)	V _R	5				V
Operating Temperature	T _{OP}	-30 to 80				°C
Storage Temperature	T _{ST}	-40 to 85				°C

*Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width

Electrical-Optical Characteristics

(Ta=25 °C)

Code for parts	Lighting Color	Material	Forward Voltage (V)		Wavelength (nm) typ			Luminous Intensity (mcd)*		I _F (mA)
			typ	max	λ _D	λ _P	Δλ	min	typ	
HT-210SD/YG	Super Bright Orange	GaAsP	2.1	2.6	629	642	35	4	11	20
	Yellow Green	GaP	2.2	2.6	573	568	30	6.3	16	20
HT-210Y/YG	Yellow	GaAsP	2.1	2.6	590	589	35	2.5	9	20
	Yellow Green	GaP	2.2	2.6	573	568	30	6.3	16	20
HT-210D/YG	Amber	GaAsP	2.1	2.6	608	610	35	2.5	9	20
	Yellow Green	GaP	2.2	2.6	573	568	30	6.3	16	20

Code for parts	Lighting Color	Material	Forward Voltage (V)		Wavelength (nm) typ			Luminous Intensity (mcd)*		I _F (mA)
			typ	max	λ _D	λ _P	Δλ	min	typ	
HT-210USD/UYG	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	40	80	20
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	50	20
HT-210UY/UYG	Ultra Bright Yellow	AllnGaP	1.9	2.4	589	593	15	40	80	20
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	50	20
HT-210UD/UYG	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	40	80	20
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	50	20

Code for parts	Lighting Color	Material	Forward Voltage (V)		Wavelength (nm) typ			Luminous Intensity (mcd)*		I _F (mA)
			typ	max	λ _D	λ _P	Δλ	min	typ	
HT-210USD/NB	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	40	80	20
	Blue	InGaN	3.3	3.9	470	468	40	25	60	20
HT-210UY/NB	Ultra Bright Yellow	AllnGaP	1.9	2.4	589	593	15	40	80	20
	Blue	InGaN	3.3	3.9	470	468	40	25	60	20
HT-210UD/NB	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	40	80	20
	Blue	InGaN	3.3	3.9	470	468	40	25	60	20

*Per NIST standards