

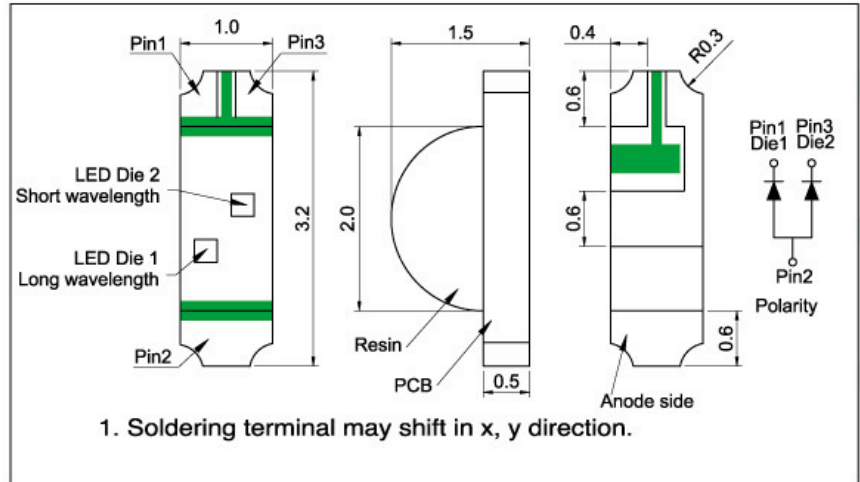
Characters

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

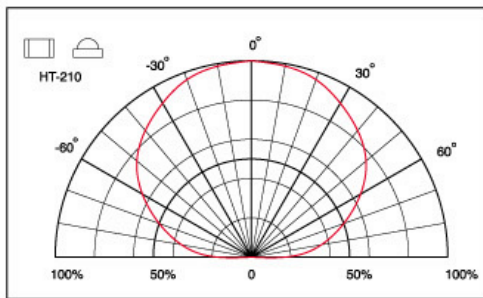
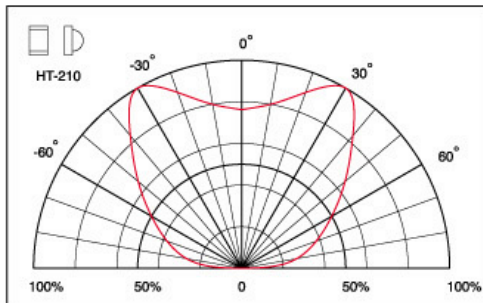


Package Outline Dimensions

(Unit:mm Tolerance:+/-0.1)

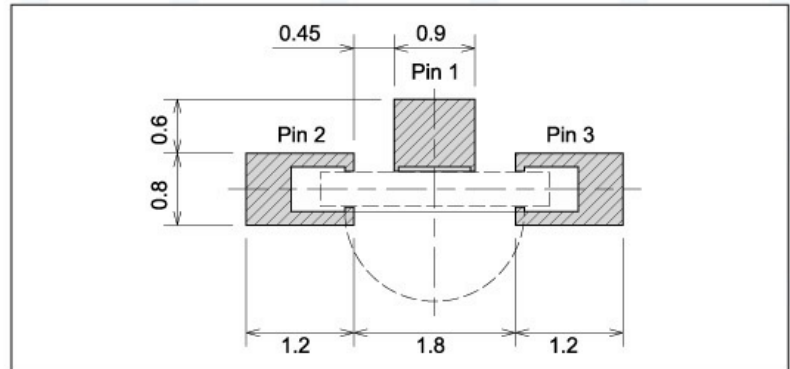


Directive Characteristics



Recommended Soldering Pattern

Unit: mm



Absolute Maximum Ratings

(Ta=25 °C)

Item	Symbol	Value				Unit
		GaP	GaAsP	AlInGaP	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 ($I_R=100\mu A$)	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

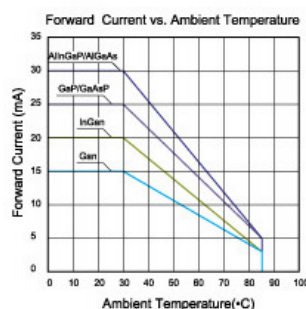
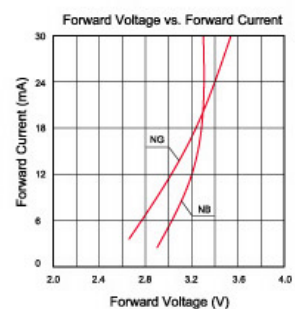
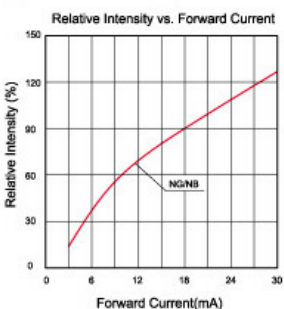
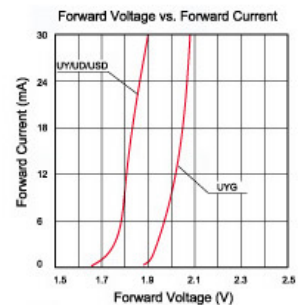
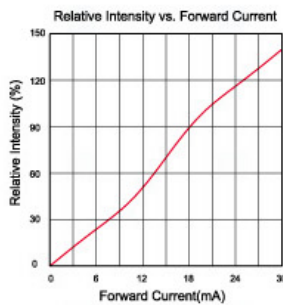
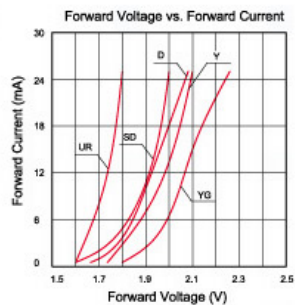
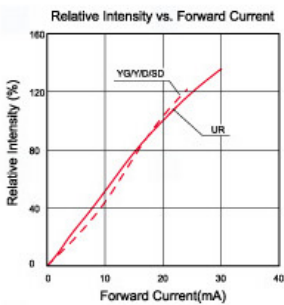
(Ta=25 °C)

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	3.6	9	20
	Yellow Green	GaP	2.2	2.6	573	568	30	9	16	20
HT-210Y/YG	Yellow	GaAsP	2.1	2.6	590	589	35	5.6	9	20
	Yellow Green	GaP	2.2	2.6	573	568	30	9	16	20
HT-210D/YG	Amber	GaAsP	2.1	2.6	608	610	35	3.6	9	20
	Yellow Green	GaP	2.2	2.6	573	568	30	9	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/YUG	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	56	120	20
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20
HT-210UY/YUG	Ultra Bright Yellow	AllnGaP	1.9	2.4	589	593	15	36	120	20
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20
HT-210UD/YUG	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	56	120	20
	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20

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			typ	max	λ _D	λ _P	Δλ	min	typ	
HT-210USD/NB	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	56	120	20
	Blue	InGaN	3.3	3.9	470	468	40	36	60	20
HT-210UY/NB	Ultra Bright Yellow	AllnGaP	1.9	2.4	589	593	15	36	120	20
	Blue	InGaN	3.3	3.9	470	468	40	36	60	20
HT-210UD/NB	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	56	120	20
	Blue	InGaN	3.3	3.9	470	468	40	36	60	20

*Per NIST standards



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