

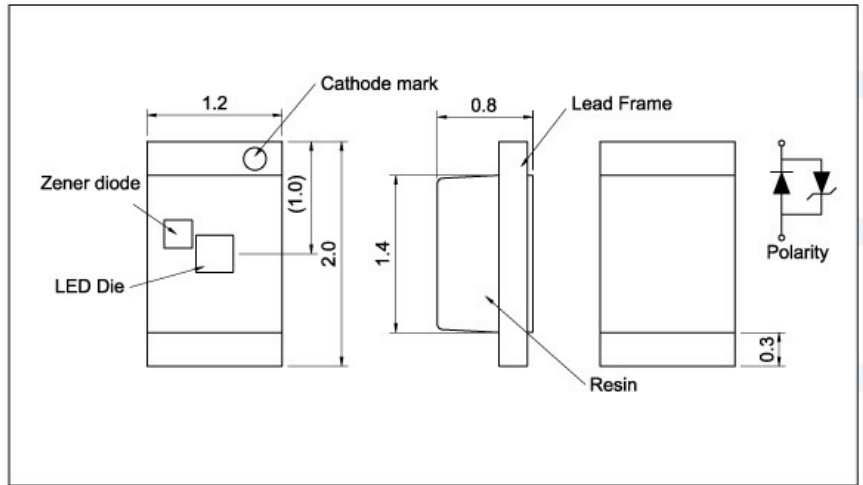
Characters

- Chip LED (2.0x1.2x0.8)
- Super compact type

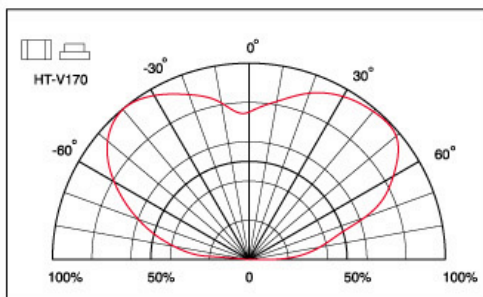
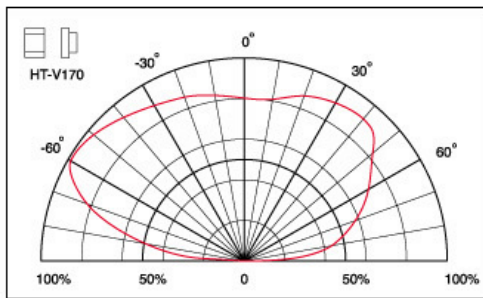


Package Outline Dimensions

(Unit: mm Tolerance: +/-0.1)

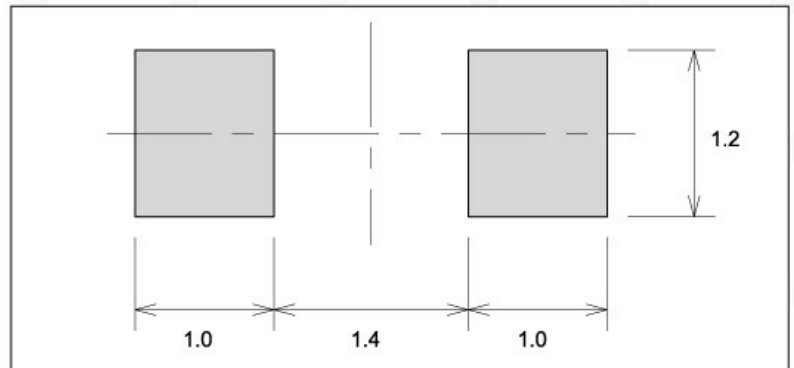


Directive Characteristics



Recommended Soldering Pattern

(Unit:mm)



1. Soldering terminal may shift in x, y direction.

Absolute Maximum Ratings

(Ta=25 °C)

Item	Symbol	Value		Unit
		AlInGaP	InGaN	
Power Dissipation	P _D	72	117	mW
DC Forward Current	I _F	30	30	mA
Pulsed Forward Current	I _{FP} *	120	120	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 0.1 msec width

Electrical-Optical Characteristics

($T_a=25\text{ }^\circ\text{C}$)

Code for parts	Lighting Color	Material	Forward Voltage (V)		Wavelength (nm) typ			Luminous Intensity (mcd)*		I_F (mA)
			typ	max	λ_D	λ_P	$\Delta\lambda$	min	typ	
HT-V170UYG	Ultra Bright Yellow Green	AllnGaP	2.0	2.4	573	574	20	25	60	20
HT-V170UY	Ultra Bright Yellow	AllnGaP	1.9	2.4	591	593	15	36	70	20
HT-V170UD	Ultra Bright Amber	AllnGaP	1.9	2.4	605	609	17	36	90	20
HT-V170USD	Ultra Bright Orange	AllnGaP	1.9	2.4	622	636	17	56	140	20

Code for parts	Lighting Color	Material	$I_F=20\text{mA}$							$I_F=5\text{mA}$						
			Forward Voltage (V)		Wavelength (nm) typ			Luminous Intensity (mcd)*		Forward Voltage (V)		Wavelength (nm) typ			Luminous Intensity (mcd)*	
			typ	max	λ_D	λ_P	$\Delta\lambda$	min	typ	typ	max	λ_D	λ_P	$\Delta\lambda$	min	typ
HT-V170NB	Blue	InGaN	3.3	3.9	470	468	40	36	90	2.8	3.15	472	470	40	9	25
HT-V170NG	Green	InGaN	3.3	3.9	527	520	40	90	260	2.8	3.15	529	522	40	15	45
HT-V170TW	White	InGaN	3.3	3.9	X=0.29 Y=0.31	-	-	140	220	2.8	3.15	X=0.29 Y=0.32	-	-	25	60

*Per NIST standards

