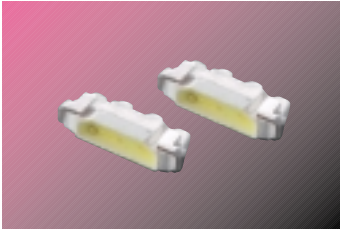
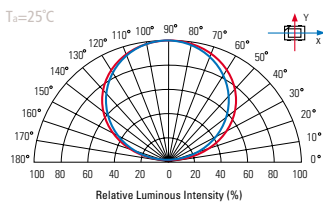


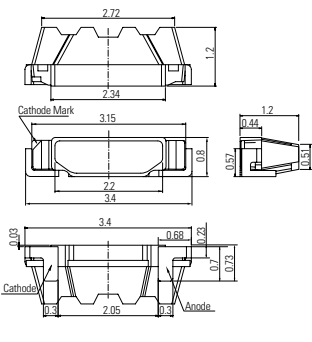
SLSNNWH421US(0.8t)



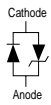
Radiation Diagram (120°)



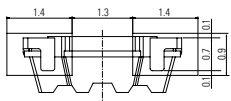
Package Outline



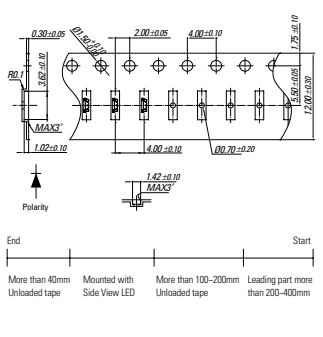
Polarity



Recommended Soldering Pattern



Carrier Tape



Absolute Maximum Ratings Ta=25°C

Item	If (mA)	*Ifp (mA)	Tj (°C)	Tstg (°C)	Tstd	Topr (°C)
Value2	30	100	120	-40 ~ 100	260°C, 10sec	-30 ~ 85

* Pulse condition : 10% Duty and 0.1ms width

Electrical Characteristics Ta=25°C

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	Vf	20mA	3.0	3.2	3.4	V
Reverse Voltage	Vr	10mA	0.6	-	2.0	V

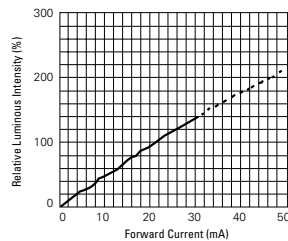
※ Tolerance : Vf ±0.05V

Product List Unit : mm, Ta=25°C

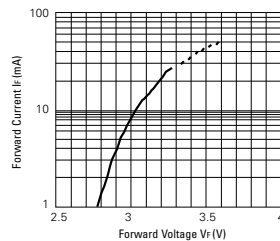
Part Number	Dimension	Rank	Luminous Intensity(mcd)			Condition	Viewing Angle 2θ1/2(degree)
			Min.	Typ.	Max.		
SLHNNWH421US	3.4×1.2×0.8t	K1	1500		1550	20mA	120°
		K2	1550		1600		
		L1	1600		1650		
		L2	1650		1700		
		M1	1700		1750		
		M2	1750		1800		
		N1	1800		1850		
		N2	1850		1900		
		O1	1900		1950		
		O2	1950		2000		
		AF1	2000		2050		
		AF2	2050		2100		
		AG1	2100		2150		
		AG2	2150		2200		
		AH1	2200		2250		
		AH2	2250		2300		
		AI1	2300		2350		
		AI2	2350		2400		
		AJ1	2400		2450		
		AJ2	2450		2500		
AK1	2500		2550				
AK2	2550		2600				
AL1	2600		2650				
AL2	2650		2700				

※ Tolerance : ±5%

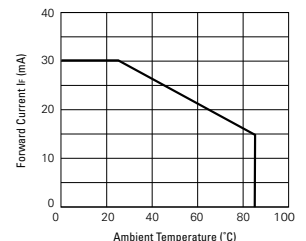
Relative Luminous Intensity vs. Forward Current



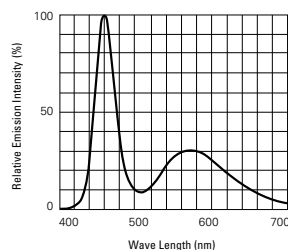
Forward Current vs. Forward Voltage



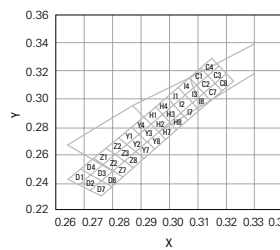
Forward Current Derating Curve



Spectrum Distribution



CIE Coordination(SAMSUNG-LED Rank)



SLSNNWH421US(0.8t)

Chromaticity Coordinate					Ta=25°C, @20mA
S-LED rank	x	y	S-LED rank	x	y
D1	0.2640	0.2420	D2	0.2680	0.2380
	0.2680	0.2380		0.2720	0.2340
	0.2723	0.2453		0.2760	0.2410
	0.2685	0.2495		0.2723	0.2453
D4	0.2685	0.2495	D3	0.2723	0.2453
	0.2723	0.2453		0.2760	0.2410
	0.2765	0.2525		0.2800	0.2480
	0.2730	0.2570		0.2765	0.2525
Z1	0.2730	0.2570	Z2	0.2765	0.2525
	0.2765	0.2525		0.2800	0.2480
	0.2808	0.2598		0.2840	0.2550
	0.2775	0.2645		0.2808	0.2598
Z4	0.2775	0.2645	Z3	0.2808	0.2598
	0.2808	0.2598		0.2840	0.2550
	0.2850	0.2670		0.2880	0.2620
	0.2820	0.2720		0.2850	0.2670
Y1	0.2820	0.2720	Y2	0.2850	0.2670
	0.2850	0.2670		0.2880	0.2620
	0.2893	0.2743		0.2920	0.2690
	0.2865	0.2795		0.2893	0.2743
Y4	0.2865	0.2795	H2	0.2893	0.2743
	0.2893	0.2743		0.2920	0.2690
	0.2935	0.2815		0.2960	0.2760
	0.2910	0.2870		0.2935	0.2815
H1	0.2910	0.2870	H2	0.2935	0.2815
	0.2935	0.2815		0.2960	0.2760
	0.2975	0.2885		0.3000	0.2830
	0.2950	0.2940		0.2975	0.2885
H4	0.2950	0.2940	H3	0.2975	0.2885
	0.2975	0.2885		0.3000	0.2830
	0.3015	0.2955		0.3040	0.2900
	0.2990	0.3010		0.3015	0.2955
I1	0.2990	0.3010	I2	0.3015	0.2955
	0.3015	0.2955		0.3040	0.2900
	0.3055	0.3025		0.3080	0.2970
	0.3030	0.3080		0.3055	0.3025
I4	0.3030	0.3080	I3	0.3055	0.3025
	0.3055	0.3025		0.3080	0.2970
	0.3095	0.3095		0.3120	0.3040
	0.3070	0.3150		0.3095	0.3095
C1	0.3070	0.3150	C2	0.3095	0.3095
	0.3095	0.3095		0.3120	0.3040
	0.3135	0.3165		0.3160	0.3110
	0.3110	0.3220		0.3135	0.3165
C4	0.3110	0.3220	C3	0.3135	0.3165
	0.3135	0.3165		0.3160	0.3110
	0.3175	0.3235		0.3200	0.3180
	0.3150	0.3290		0.3175	0.3235

※ Tolerance : x,y ±0.01