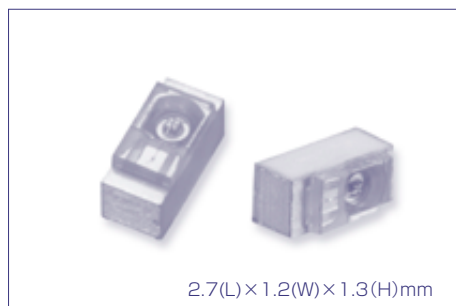




- 上面発光及び側面発光のいずれにも実装可能です。
- 発光部周辺にリフレクタを配した高輝度タイプです。
- CL-221には上向き(上面)と横向き(側面)のテーピング仕様がありますので、ご発注時にはご指定ください。

- Both mounting available: namely, upright and right-angle mounting
- The package provides a reflector area around the LED die and it enhances higher brightness.
- For CL-221 there are two ways of taping, namely, taping upward and taping sid-eways. Please specify when ordering.

●絶対最大定格/Absolute Maximum Rating

(Ta 25°C)

Series	Pd (mW)	I _F (mA)	I _{FP} (mA)	V _R (V)	Top (°C)	Tst (°C)
CL-221 (UR,HRを除く) Except UR and HR	65	25	100※1	5	-25~+80	-30~+85
CL-221UR/HR	78	30				

※1 I_{FP}の条件はduty 1/10、パルス巾0.1msecです。※1 Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

●電氣的・光学的特性/Electro-optical Characteristics

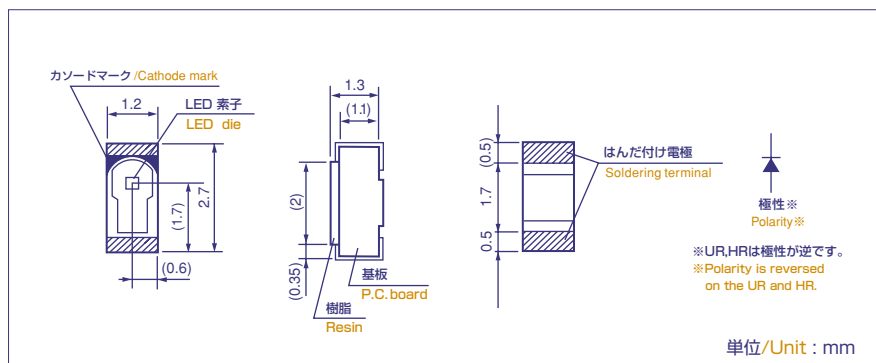
(Ta 25°C)

Code for parts	Lighting color	V _F			λ _p typ (nm)	Δλ typ (nm)	I _V *		
		I _F (mA)	typ (V)	max (V)			I _F (mA)	min (mcd)	typ (mcd)
CL-221R	Red	20	2.2	2.6	700	100	20	1.5	3
CL-221D	Orange	20	2.2	2.6	605	40	20	5	15
CL-221Y	Yellow	20	2.1	2.6	589	40	20	6.1	15
CL-221YG	Yellow green	20	2.2	2.6	570	30	20	10	35
CL-221G	Green	20	2.2	2.6	567	26	20	5.8	17
CL-221FG	Fresh green	20	2.2	2.6	560	26	20	5.8	11
CL-221PG	Pure green	20	2.2	2.6	557	24	20	2.4	5.3
CL-221SR	Super brightness red	20	2	2.6	650	40	20	3.8	7.2
CL-221SD	Super brightness orange	20	2	2.6	630	40	20	4.4	13
CL-221UR	Ultra brightness red	20	1.8	2.6	660	20	20	5.6	20
CL-221HR	High brightness red	20	1.8	2.6	660	20	20	9	50

※NIST規格に準拠

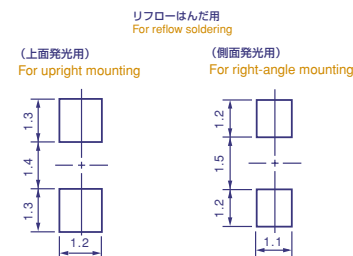
※Per NIST standards

●外形寸法図/Outline drawing



推奨はんだ付けパターン

The following soldering patterns are recommended for reflow-soldering:



■ 諸特性/Characteristics

