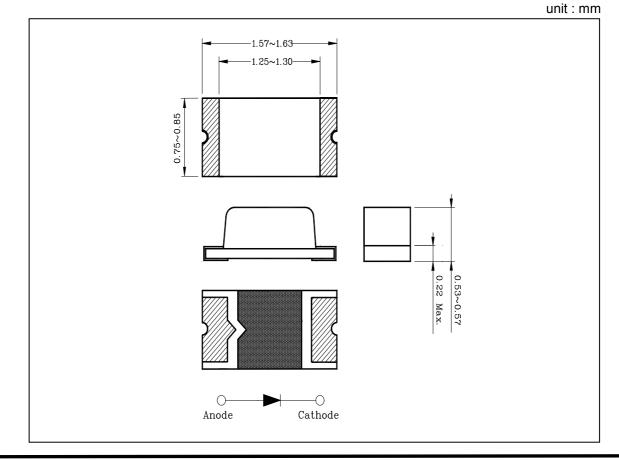
SM1316

- 1. Features
 - 1.6mm(L)×0.8mm(W) small size surface mount type
 - Thin package of 0.55mm(H) thickness
 - Transparent clear lens optic
 - Low power consumption type chip led
 - Emitting Light Yellow Green (570nm)

2. Applications

- LCD backlighting
- Keypad backlighting
- Symbol backlighting
- Front panel indicator lamp

3. Outline Dimensions





SM1316

2500

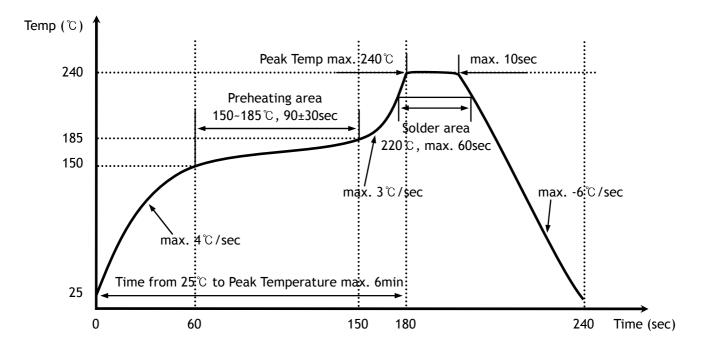
4. Absolute Maximum Ratings

			$(Ta=25^{\circ}C)$
Characteristic	Symbol	Rating	Unit
Power dissipation	P _D	60	mW
Forward current	I _F	25	mA
*1 Peak forward current	I_{FP}	50	mA
Reverse voltage	V _R	4	V
Operating temperature range	T _{opr}	-25~80	C
Storage temperature range	T _{stg}	-30~100	Ĉ
*2 Soldering temperature	T _{sol}	240℃ for :	10 seconds

*1.Duty ratio = 1/16, Pulse width = 0.1ms

*2.Recommended reflow soldering temperature profile

- Preheating 150 $^\circ$ to 185 $^\circ$ within 120 seconds soldering 240 $^\circ$ within 10 seconds Gradual cooling (Avoid quenching)





SM1316

5. Electrical / Optical Characteristics

						(*	Га=25°С)
Characteristic	Syn	nbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V	/ _F	I _F = 20mA	2.0	-	2.4	V
*3 Luminous intensity	I	V	I _F = 20mA	4	-	17	mcd
Peak wavelength	λ _P		I _F = 20mA	562	568	574	nm
Spectrum bandwidth	Δ	Λ_{λ}	I _F = 20mA	-	30	-	nm
Reverse current	I	R	V _R =4V	-	-	10	uA
*4 Half angle	θ/2	Х	I _F = 20mA	-	±65	-	deg
	0/2	Y	1 _F - 2011A	-	±70	-	ueg

*3.The test result of I_F =20mA is only for reference

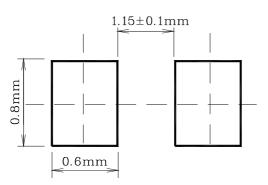
*4. θ /2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity

 $\blacklozenge~V_{F}$ / I_{V} / λ_{P} Grade Classification (Ta=25 $^{\circ}\mathrm{C}$)

Test Condition @ I _F =20mA					
Forward Voltage [V]	Luminous Intensity [mcd]	Peak Wavelength [nm]			
1 : 2.0~2.2	E:4~6	a : 562~568 b : 568~574			
	F:6~10				
2 : 2.2~2.4	G : 10~17				

(Each V_F, I_V, λ_P range did not consider a margin. Please refer to ±0.1V of V_F range, ±18% of I_V range, ±1nm of λ_P range as a permitted limit and do not use to combine grade classification. It must be used separately grade classification)

* Recommended Soldering Land Pattern





6. Characteristic Diagrams

