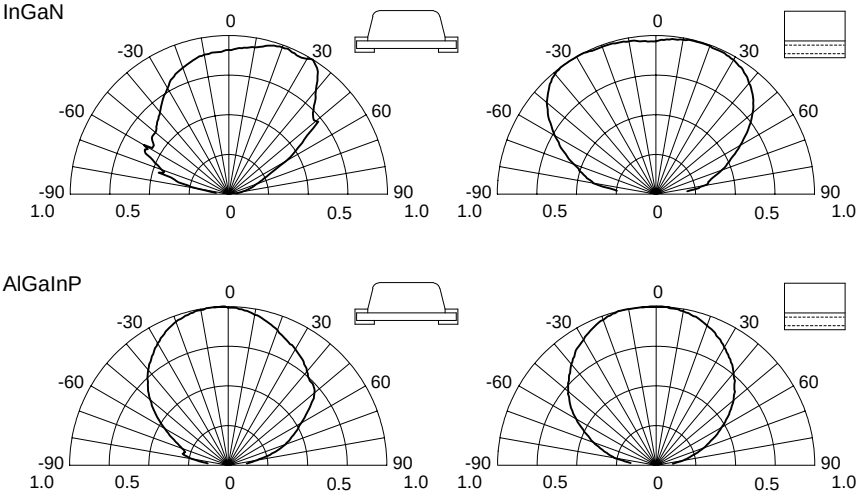
■1.6 × 0.8 Miniature Surface Mount LEDs

SEC1005 Series

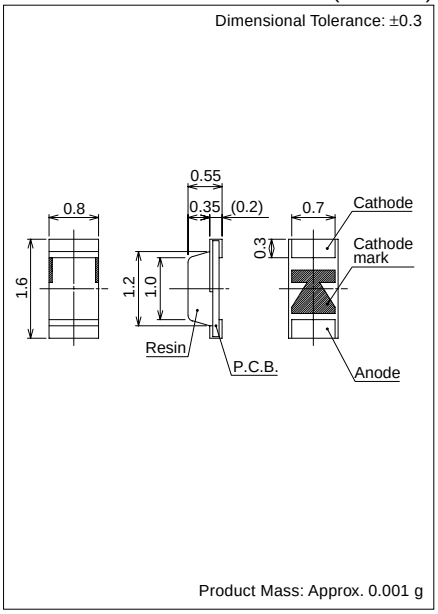
	Part Number	Emitting Color	Lens Color	Forward Voltage VF (V) TYP	MAX	Conditions IF (mA)	Luminous Intensity Iv (mcd) TYP	Conditions IF (mA)	Peak Wavelength λP (nm) TYP	Conditions IF (mA)	Dominant Wavelength λd (nm) TYP	Conditions IF (mA)	Spectrum Half Bandwidth Δλ (nm) TYP	Conditions IF (mA)	Chip Material
	SECU1605C-S	Deep red	Water clear	1.9	2.5	10	25	10	650	10	639	10	20	10	AlGaInP
	SECU1205C-S	Red	Water clear	1.9	2.5	10	45	10	635	10	625	10	20	10	AlGaInP
	SECU1805C-S	Amber	Water clear	1.9	2.5	10	50	10	615	10	607	10	17	10	AlGaInP
	SECU1905C-S	Orange	Water clear	1.9	2.5	10	40	10	591	10	589	10	15	10	AlGaInP
*	SECK1D05C-S	Green	Water clear	3.8	4.3	10	45	10	514	10	520	10	40	10	GaN on Si
	SECT1D05C-S	Pure green	Water clear	3.3	3.8	10	180	10	520	10	526	10	35	10	InGaN
	SECS1L05C-S	Aqua blue	Water clear	3.1	3.6	10	50	10	486	10	490	10	45	10	InGaN
	SECK1L05C-S	Aqua blue	Water clear	3.5	4.1	10	20	10	488	10	490	10	30	10	GaN on Si
*	SECT1E05C-S	Blue	Water clear	3.3	3.8	10	40	10	460	10	466	10	25	10	InGaN
*	SECK1E05C-S	Blue	Water clear	3.6	4.0	10	10	10	470	10	472	10	30	10	GaN on Si

*Mass production in preparation

Directional Characteristics (representative example)



External Dimensions (Unit: mm)



Absolute Maximum Ratings

●Visible Light Unicolor Lamp

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
P_D	mW	75				120		
I_F	mA	30						
ΔIF	mA/°C	−0.45						25°C or higher
IFP	mA	100					70	f=1kHz, tw≤100μs
VR	V	3			5			
Top	°C	−30 to +85					−30 to +80	
Tstg	°C	−30 to +100						

●Visible Light Bicolor Lamp

Parameter	Unit	Ratings					Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	
P_D	mW	75				120	Same conditions for simultaneous lighting
I_F	mA	30					
ΔIF	mA/°C	−0.45					25°C or higher
IFP	mA	100					f=1kHz, tw≤100μs
VR	V	4			5		
Top	°C	−30 to +85					
Tstg	°C	−30 to +100					

●Visible Light Unicolor Surface Mount LEDs

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
I_F	mA	30				20		
ΔIF	mA/°C	−0.45				−0.27		25°C or higher
IFP	mA	100*1				70*2		f=1kHz, tw≤100μs
VR	V	3			5			
Top	°C	−30 to +85				−30 to +80		
Tstg	°C	−30 to +100						

*1: 70mA for SEC1005/1007 Series
*2: 50mA for SEC1005/1007 Series

●Visible Light Bicolor Surface Mount LEDs

Parameter	Unit	Ratings	Conditions
		SEC2002/2004	
P_D	mW	75	
		(Same conditions for simultaneous lighting)	
I_F	mA	30	
ΔIF	mA/°C	−0.45	25°C or higher
IFP	mA	70	f=1kHz, tw≤100μs
VR	V	4	
Top	°C	−30 to +85	
Tstg	°C	−30 to +100	

●Visible Light Three Element Surface Mount LEDs

Parameter	Unit	Ratings		Conditions
		SECT3M02C-S		
		Red	Green/Blue	
P_D	mW	75	120	When one chip lights up (same as green/blue for simultaneous lighting)
I_F	mA	30		
ΔIF	mA/°C	−0.45		25°C or higher
IFP	mA	70	50	f=1kHz, tw≤100μs
VR	V	5		
Top	°C	−30 to +80		
Tstg	°C	−30 to +100		