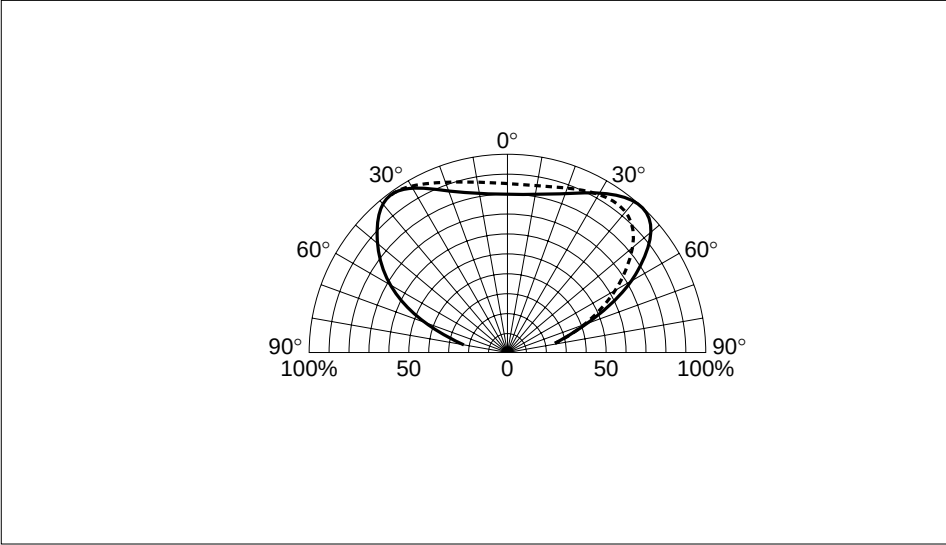


■3.0 × 2.5 Surface Mount LEDs with Two Elements (Flat Lens Type)

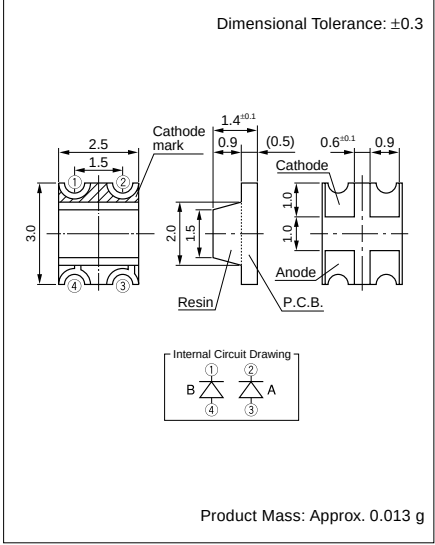
SEC2002 Series

Part Number	Emitting Color	Lens Color	Forward Voltage			Luminous Intensity		Peak Wavelength		Dominant Wavelength		Spectrum Half Bandwidth		Chip Material
			VF (V)	Conditions IF (mA)	Iv (mcd)	Conditions IF (mA)	λP (nm)	Conditions IF (mA)	λd (nm)	Conditions IF (mA)	Δλ (nm)	Conditions IF (mA)		
													TYP	
SEC2762C-YG	A: High luminosity red	Water clear	1.7	2.2	10	20	20	660	10	642	10	30	10	GaAlAs
	B: Yellow		2.0	2.5	10	20	20	570	10	571	10	30	10	GaP
SEC2462C	A: High luminosity red	Water clear	1.7	2.2	10	20	20	660	10	642	10	30	10	GaAlAs
	B: Green		2.0	2.5	10	20	20	560	10	567	10	20	10	GaP
SEC2422C	A: Red	Water clear	1.9	2.5	10	10	20	630	10	620	10	35	10	GaAsP
	B: Green		2.0	2.5	10	20	20	560	10	567	10	20	10	GaP
SEC2492C	A: Orange	Water clear	1.9	2.5	10	10	20	587	10	590	10	33	10	GaAsP
	B: Green		2.0	2.5	10	20	20	560	10	567	10	20	10	GaP
SEC2592C	A: Orange	Water clear	1.9	2.5	10	10	20	587	10	590	10	33	10	GaAsP
	B: Pure green		2.0	2.5	10	5.0	20	555	10	559	10	20	10	GaP
SEC2442C	A: Green	Water clear	2.0	2.5	10	20	20	560	10	567	10	20	10	GaP
	B: Green		2.0	2.5	10	20	20	560	10	567	10	20	10	GaP
SEC2552C	A: Pure green	Water clear	2.0	2.5	10	5.0	20	555	10	559	10	20	10	GaP
	B: Pure green		2.0	2.5	10	5.0	20	555	10	559	10	20	10	GaP

Directional Characteristics (representative example)



External Dimensions (Unit: mm)



5-1 Visible Light LEDs

Absolute Maximum Ratings

●Visible Light Unicolor Lamp

Parameter	Unit	Ratings					Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	
P _D	mW	75				120	
I _F	mA	30					
ΔI _F	mA/°C	-0.45					25°C or higher
I _{FP}	mA	100				70	f=1kHz, tw≤100μs
V _R	V	3	5				
T _{op}	°C	-30 to +85				-30 to +80	
T _{stg}	°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					
ΔI _F	mA/°C	-0.45					25°C or higher f=1kHz, t _w ≤100μs
I _{FP}	mA	100					
V _R	V	4			5		
T _{op}	°C	-30 to +85					
T _{stg}	°C	-30 to +100					

●Visible Light Unicolor Surface Mount LEDs

Parameter	Unit	Ratings					Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	
I _F	mA	30				20	
ΔI _F	mA/°C	-0.45				-0.27	25°C or higher
I _{FP}	mA	100 ^{*1}				70 ^{*2}	f=1kHz, tw≤100μs
V _R	V	3	5				
T _{op}	°C	-30 to +85				-30 to +80	
T _{stg}	°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	
Pd	mW	75	
		(Same conditions for simultaneous lighting)	
If	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		
ΔI _F	mA/°C	−0.45		25°C or higher
I _{FP}	mA	70	50	f=1kHz, t _w ≤100μs
V _R	V	5		
T _{op}	°C	−30 to +80		
T _{sta}	°C	−30 to +100		