

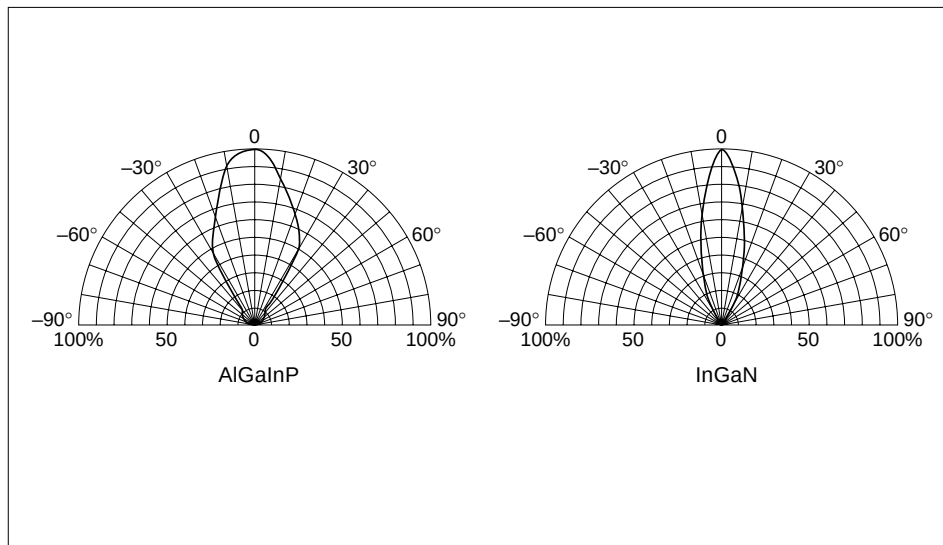
■5φ Round Wide Viewing Angle LEDs

SEL1010XM Series

Part Number	Emitting Color	Lens Color	Forward Voltage		Conditions IF (mA)	Luminous Intensity		Conditions IF (mA)	Peak Wavelength		Conditions IF (mA)	Dominant Wavelength		Conditions IF (mA)	Spectrum Half Bandwidth		Chip Material
			V _F (V) TYP	MAX		I _v (mcd) TYP	Conditions IF (mA)		λ _P (nm) TYP	Conditions IF (mA)		λ _d (nm) TYP	Conditions IF (mA)		Δλ (nm) TYP	Conditions IF (mA)	
* SELU1610CXM-S	Deep red	Water clear	2.0	2.5	20	350	20	650	20	639	20	639	20	20	20	20	AlGaInP
SELU1210CXM	Red	Water clear	2.0	2.5	20	280	20	635	20	625	20	625	20	15	20	20	AlGaInP
SELU1810CXM	Amber	Water clear	2.0	2.5	20	570	20	615	20	607	20	607	20	15	20	20	AlGaInP
* SELU1B10CXM-S	Light amber	Water clear	2.0	2.5	20	350	20	598	20	595	20	595	20	16	20	20	AlGaInP
SELU1910CXM-S	Orange	Water clear	2.0	2.5	20	450	20	591	20	590	20	590	20	15	20	20	AlGaInP
* SELU1710CXM	Yellow	Water clear	2.1	2.5	20	300	20	572	20	571	20	571	20	15	20	20	AlGaInP
* SELU1410CXM-S	Green	Water clear	2.1	2.5	20	150	20	560	20	562	20	562	20	12	20	20	AlGaInP
* SELT1D10CXM-S	Pure green	Water clear	3.3	4.0	20	3200	20	512	20	520	20	520	20	35	20	20	InGaIn
* SELS1L10CXM-S	Aqua blue	Water clear	3.6	4.0	20	1500	20	486	20	488	20	488	20	30	20	20	InGaIn
SELS1E10CXM-M	Blue	Water clear	3.7	4.2	20	1000	20	468	20	470	20	470	20	25	20	20	InGaIn
SELT1E10CXM-S	Blue	Water clear	3.3	4.0	20	1000	20	460	20	465	20	465	20	25	20	20	InGaIn
SELT1E10WXM-S	Blue	Diffused white	3.3	4.0	20	255	20	460	20	465	20	465	20	25	20	20	InGaIn
SELK1E10CXM-D	High luminosity Blue	Water clear	3.6	4.0	20	200	20	468	20	470	20	470	20	30	20	20	GaN on Si

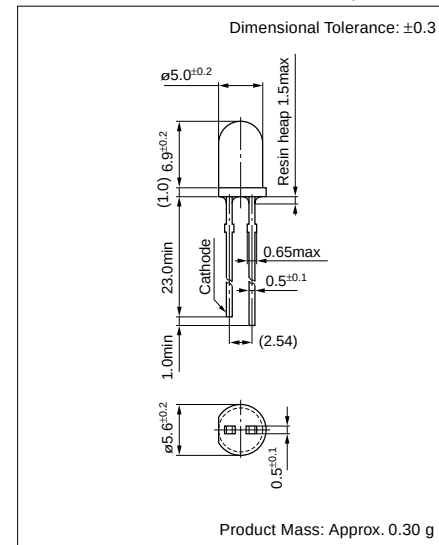
* Mass production in preparation

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	
Pd	mW	75				120	Same conditions for simultaneous lighting
IF	mA	30					
ΔIF	mA/°C	-0.45					25°C or higher f=1kHz, tw≤100μs
IFP	mA	100					
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	
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 _{stg}	°C	−30 to +100		