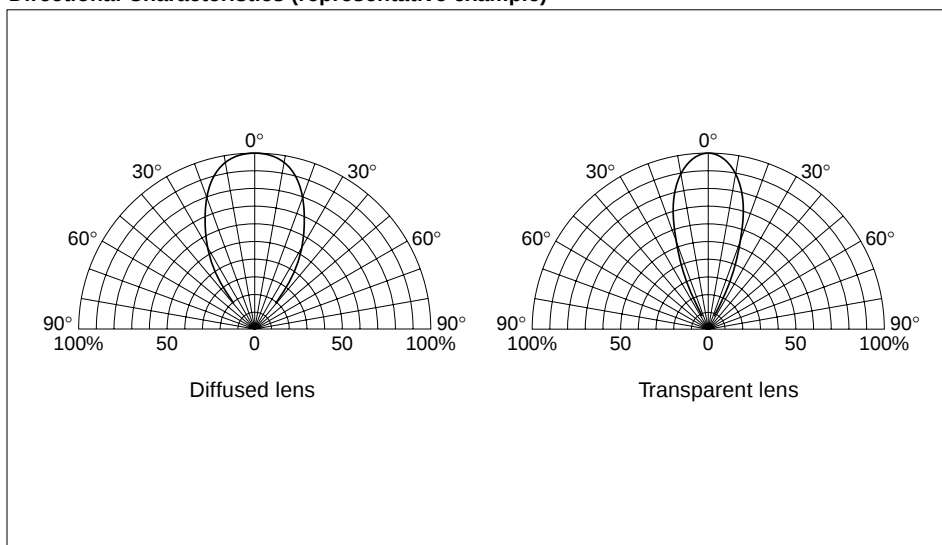


■3φ Round LEDs

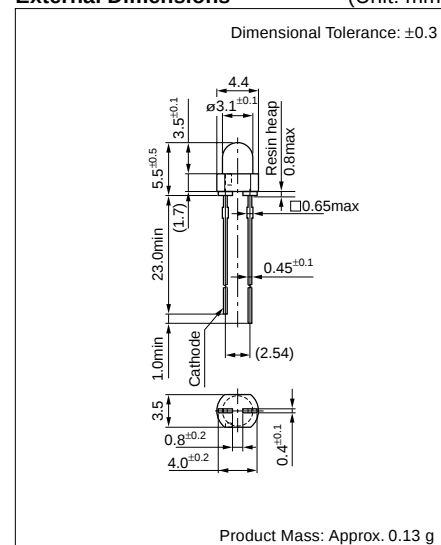
SEL6010 Series (available as Direct Mount)

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
			VF (V) TYP	MAX		Iv (mcd) TYP			λP (nm) TYP			λd (nm) TYP			Δλ (nm) TYP		
SEL6110R	Deep red	Diffused red	2.0	2.5	10	2.6	10	700	10	625	10	100	10	100	10	10	GaP
SEL6110S	Deep red	Transparent red	2.0	2.5	10	3.9	10	700	10	625	10	100	10	100	10	10	GaP
SEL6210R	Red	Diffused red	1.9	2.5	10	18	20	630	10	620	10	35	10	35	10	10	GaAsP
SEL6210S	Red	Transparent red	1.9	2.5	10	41	20	630	10	620	10	35	10	35	10	10	GaAsP
SEL6810A	Amber	Transparent orange	1.9	2.5	10	22	10	610	10	605	10	35	10	35	10	10	GaAsP
SEL6810D	Amber	Diffused orange	1.9	2.5	10	9.6	10	610	10	605	10	35	10	35	10	10	GaAsP
SEL6910A	Orange	Transparent orange	1.9	2.5	10	22	10	587	10	590	10	33	10	33	10	10	GaAsP
SEL6910D	Orange	Diffused orange	1.9	2.5	10	11	10	587	10	590	10	33	10	33	10	10	GaAsP
SEL6710K	Yellow	Transparent yellow	2.0	2.5	10	37	10	570	10	571	10	30	10	30	10	10	GaP
SEL6710Y	Yellow	Diffused yellow	2.0	2.5	10	11	10	570	10	571	10	30	10	30	10	10	GaP
SEL6410E	Green	Transparent green	2.0	2.5	10	90	20	560	10	567	10	20	10	20	10	10	GaP
SEL6410G	Green	Diffused green	2.0	2.5	10	30	20	560	10	567	10	20	10	20	10	10	GaP
SEL6510C	Pure green	Water clear	2.0	2.5	10	42	20	555	10	559	10	20	10	20	10	10	GaP
SEL6510G	Pure green	Diffused green	2.0	2.5	10	9.6	20	555	10	559	10	20	10	20	10	10	GaP
SEL6E10C	Blue	Water clear	4.0	4.8	20	60	20	430	20	466	20	65	20	65	20	20	GaN
SELK6E10C-D	High luminosity	Blue	3.6	4.0	20	100	20	468	20	470	20	30	20	30	20	20	GaN on Si
		Blue	3.8	4.2	20	350	20	468	20	470	20	30	20	30	20	20	GaN on Si
SELU6910C-S	Ultrahigh luminosity	Orange	2.0	2.5	20	550	20	591	20	590	20	15	20	15	20	20	AlGaInP

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
I _{FP}	mA	100					f=1kHz, tw≤100μs
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	
Tstq	°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		