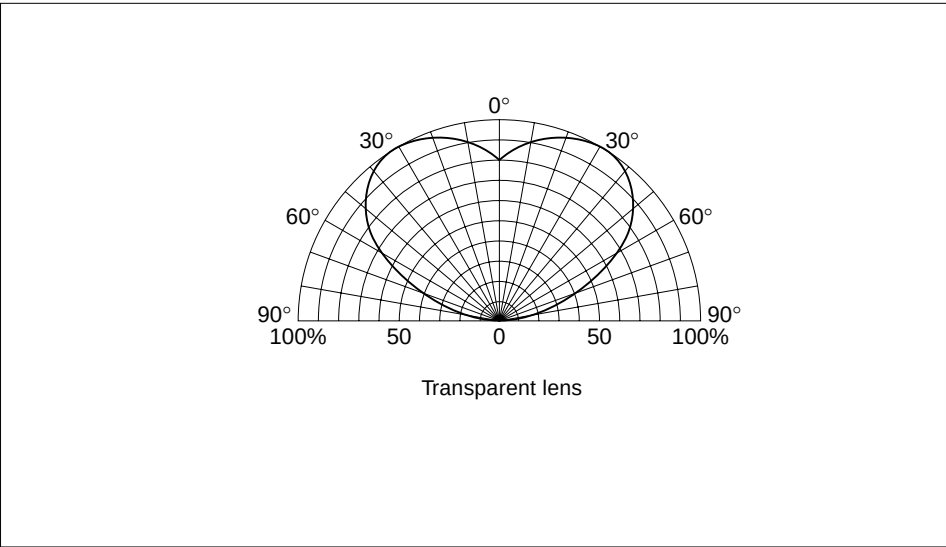


3φ Round Wide Viewing Angle LEDs

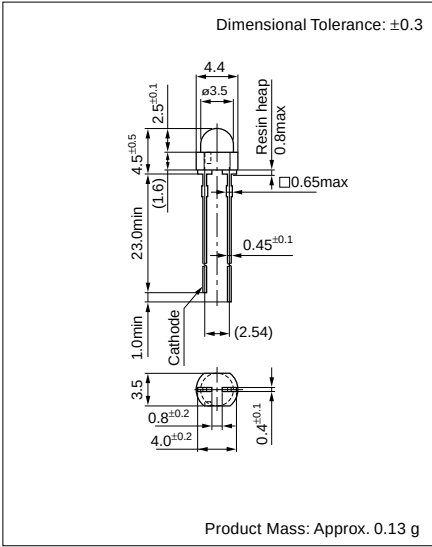
SEL6014 Series (available as Direct Mount)

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		
SEL6214S	Red	Transparent red	1.9	2.5	10	18	20	630	10	620	10	35	10	35	10	10	GaAsP
SEL6814A	Amber	Transparent orange	1.9	2.5	10	9.0	10	610	10	605	10	35	10	35	10	10	GaAsP
SEL6914A	Orange	Transparent orange	1.9	2.5	10	8.0	10	587	10	590	10	33	10	33	10	10	GaAsP
SEL6914W	Orange	Diffused white	1.9	2.5	10	5.0	10	587	10	590	10	33	10	33	10	10	GaAsP
SEL6714K	Yellow	Transparent yellow	2.0	2.5	10	66	20	570	10	571	10	30	10	30	10	10	GaP
SEL6714W	Yellow	Diffused white	2.0	2.5	10	30	20	570	10	571	10	30	10	30	10	10	GaP
SEL6414E	Green	Transparent green	2.0	2.5	10	42	20	560	10	567	10	20	10	20	10	10	GaP
SEL6414E-TG	Deep green	Transparent green	2.0	2.5	10	18	20	558	10	564	10	20	10	20	10	10	GaP
SEL6514C	Pure green	Water clear	2.0	2.5	10	12	20	555	10	559	10	20	10	20	10	10	GaP
SELK6D14C-D	High luminosity	Green	3.7	4.0	20	120	20	514	20	520	20	40	20	40	20	20	GaN on Si
SELK6E14C-D	Blue	Water clear	3.6	4.0	20	40	20	468	20	470	20	30	20	30	20	20	GaN on Si
SELU6614C-S	Ultrahigh luminosity	Deep red	2.0	2.5	20	150	20	650	20	639	20	20	20	20	20	20	AlGaInP
SELU6614W-S		Deep red	2.0	2.5	20	90	20	650	20	639	20	20	20	20	20	20	AlGaInP
SELU6214C		Red	2.0	2.5	20	180	20	635	20	625	20	15	20	15	20	20	AlGaInP
SELU6814C-S		Amber	2.0	2.5	20	230	20	615	20	607	20	15	20	15	20	20	AlGaInP
SELS6B14C		Light amber	2.0	2.5	20	120	20	600	20	596	20	15	20	15	20	20	AlGaInP
SELU6914C-S		Orange	2.0	2.5	20	180	20	591	20	590	20	15	20	15	20	20	AlGaInP
SELU6714C		Yellow	2.1	2.5	20	60	20	572	20	571	20	15	20	15	20	20	AlGaInP
SELU6414G-S		Green	2.1	2.5	20	30	20	560	20	562	20	12	20	12	20	20	AlGaInP
SELS6D14C		Pure green	3.3	4.0	20	300	20	518	20	525	20	35	20	35	20	20	InGaN
SELS6L14C-S		Aqua blue	3.3	3.8	20	600	20	483	20	487	20	30	20	30	20	20	InGaN
SELS6E14C-M		Blue	3.7	4.2	20	70	20	468	20	470	20	25	20	25	20	20	InGaN

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 _{stg}	°C	−30 to +100		