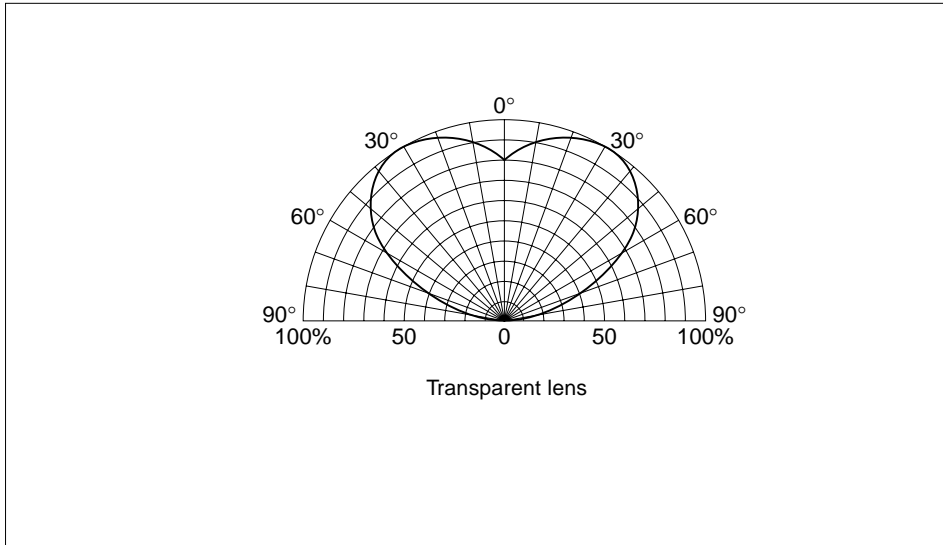


■3φ Round Wide Viewing Angle LEDs

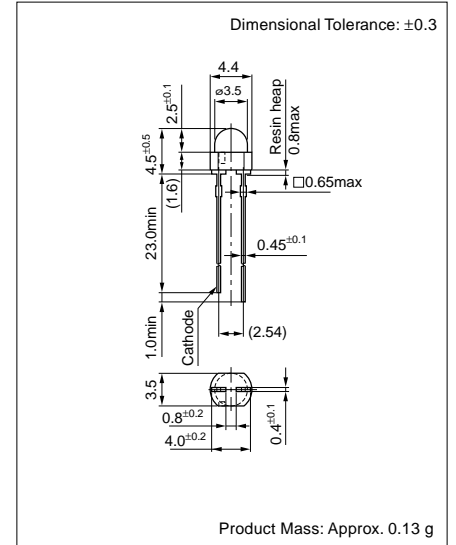
SEL6014 Series (available as Direct Mount)

Part Number	Emitting Color	Lens Color	Forward Voltage		Conditions IF (mA)	Luminous Intensity		Peak Wavelength		Dominant Wavelength		Spectrum Half Bandwidth		Chip Material	
			V <sub>F</sub> (V) TYP	MAX		I <sub>v</sub> (mcd) TYP	Conditions IF (mA)	λ <sub>P</sub> (nm) TYP	Conditions IF (mA)	λ <sub>d</sub> (nm) TYP	Conditions IF (mA)	Δλ (nm) TYP	Conditions IF (mA)		
SEL6214S	Red	Transparent red	1.9	2.5	10	18	20	630	10	620	10	35	10	GaAsP	
SEL6814A	Amber	Transparent orange	1.9	2.5	10	9.0	10	610	10	605	10	35	10	GaAsP	
SEL6914A	Orange	Transparent orange	1.9	2.5	10	8.0	10	587	10	590	10	33	10	GaAsP	
SEL6914W	Orange	Diffused white	1.9	2.5	10	5.0	10	587	10	590	10	33	10	GaAsP	
SEL6714K	Yellow	Transparent yellow	2.0	2.5	10	66	20	570	10	571	10	30	10	GaP	
SEL6714W	Yellow	Diffused white	2.0	2.5	10	30	20	570	10	571	10	30	10	GaP	
SEL6414E	Green	Transparent green	2.0	2.5	10	42	20	560	10	567	10	20	10	GaP	
SEL6414E-TG	Deep green	Transparent green	2.0	2.5	10	18	20	558	10	564	10	20	10	GaP	
SEL6514C	Pure green	Water clear	2.0	2.5	10	12	20	555	10	559	10	20	10	GaP	
SELK6D14C-D	High luminosity	Green	Water clear	3.7	4.0	20	120	20	514	20	520	20	40	20	GaN on Si
SELK6E14C-D	Blue	Water clear	3.6	4.0	20	40	20	468	20	470	20	30	20	GaN on Si	
SELU6614C-S	Ultra-high luminosity	Deep red	Water clear	2.0	2.5	20	150	20	650	20	639	20	20	20	AlGaInP
SELU6614W-S		Deep red	Diffused white	2.0	2.5	20	90	20	650	20	639	20	20	20	AlGaInP
SELU6214C		Red	Water clear	2.0	2.5	20	180	20	635	20	625	20	15	20	AlGaInP
SELU6814C-S		Amber	Water clear	2.0	2.5	20	230	20	615	20	607	20	15	20	AlGaInP
SELS6B14C		Light amber	Water clear	2.0	2.5	20	120	20	600	20	596	20	15	20	AlGaInP
SELU6914C-S		Orange	Water clear	2.0	2.5	20	180	20	591	20	590	20	15	20	AlGaInP
SELU6714C		Yellow	Water clear	2.1	2.5	20	60	20	572	20	571	20	15	20	AlGaInP
SELU6414G-S		Green	Water clear	2.1	2.5	20	30	20	560	20	562	20	12	20	AlGaInP
SELS6D14C		Pure green	Water clear	3.3	4.0	20	300	20	518	20	525	20	35	20	InGaN
SELS6L14C-S		Aqua blue	Water clear	3.3	3.8	20	600	20	483	20	487	20	30	20	InGaN
SELS6E14C-M	Blue	Water clear	3.7	4.2	20	70	20	468	20	470	20	25	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	
PD	mW	75			120		
IF	mA	30					
ΔIF	mA/°C	-0.45					25°C or higher
IFP	mA	100			70		f=1kHz, tw≤100μs
VR	V	3		5			
T <sub>op</sub>	°C	-30 to +85				-30 to +80	
T <sub>stg</sub>	°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
IFP	mA	100			70		f=1kHz, tw≤100μs
VR	V	4		5			
T <sub>op</sub>	°C	-30 to +85				-30 to +80	
T <sub>stg</sub>	°C	-30 to +100					

#### ●Visible Light Unicolor Surface Mount LEDs

Parameter	Unit	Ratings					Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	
IF	mA	30			20		
ΔIF	mA/°C	-0.45					25°C or higher
IFP	mA	100 <sup>*1</sup>			70 <sup>*2</sup>		f=1kHz, tw≤100μs
VR	V	3		5			
T <sub>op</sub>	°C	-30 to +85				-30 to +80	
T <sub>stg</sub>	°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		
T <sub>op</sub>	°C	-30 to +85		
T <sub>stg</sub>	°C	-30 to +100		

#### ●Visible Light Three Element Surface Mount LEDs

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