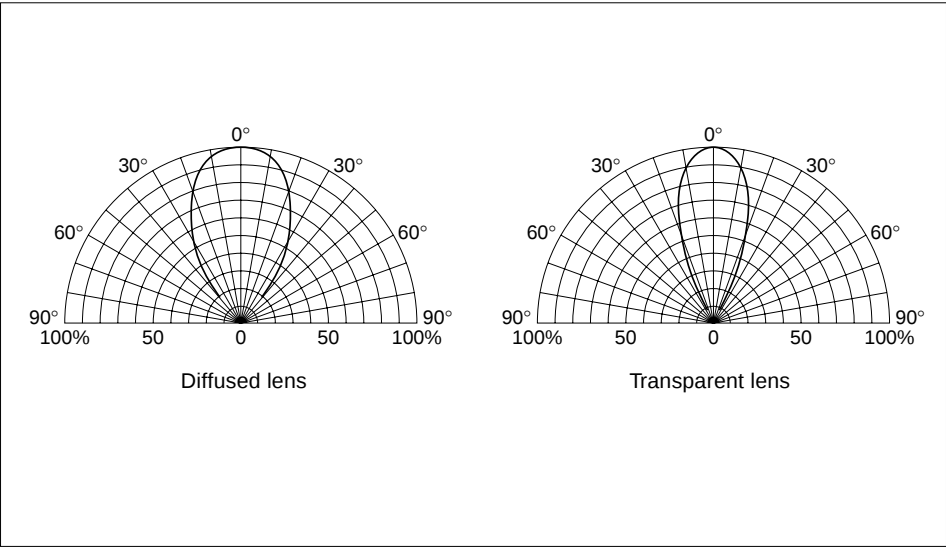


4φ Round Wide Viewing Angle LEDs

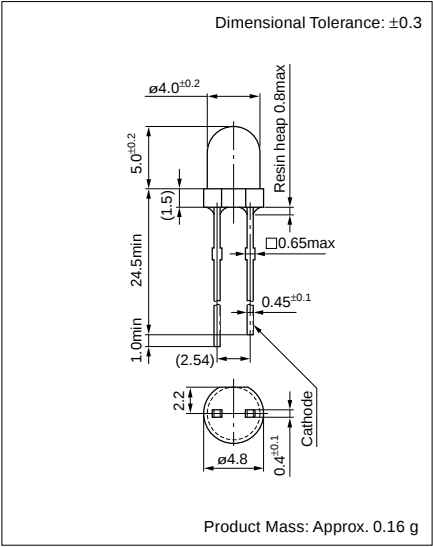
SEL4014 Series (available as Direct Mount)

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)	Δλ (nm) TYP	Conditions IF (mA)	Chip Material
			VF (V) TYP	MAX		Iv (mcd) TYP			λP (nm) TYP			λd (nm) TYP					
SEL4114R	Deep red	Diffused red	2.0	2.5	10	2.8		10	700		10	625		10	100	10	GaP
SEL4114S	Deep red	Transparent red	2.0	2.5	10	3.8		10	700		10	625		10	100	10	GaP
SEL4214R	Red	Diffused red	1.9	2.5	10	24		20	630		10	620		10	35	10	GaAsP
SEL4214S	Red	Transparent red	1.9	2.5	10	40		20	630		10	620		10	35	10	GaAsP
SEL4814A	Amber	Transparent orange	1.9	2.5	10	20		10	610		10	605		10	35	10	GaAsP
SEL4814D	Amber	Diffused orange	1.9	2.5	10	15		10	610		10	605		10	35	10	GaAsP
SEL4914A	Orange	Transparent orange	1.9	2.5	10	26		10	587		10	590		10	33	10	GaAsP
SEL4914D	Orange	Diffused orange	1.9	2.5	10	11		10	587		10	590		10	33	10	GaAsP
SEL4714K	Yellow	Transparent yellow	2.0	2.5	10	38		10	570		10	571		10	30	10	GaP
SEL4714Y	Yellow	Diffused yellow	2.0	2.5	10	27		10	570		10	571		10	30	10	GaP
SEL4414E	Green	Transparent green	2.0	2.5	10	69		20	560		10	567		10	20	10	GaP
SEL4414G	Green	Diffused green	2.0	2.5	10	48		20	560		10	567		10	20	10	GaP
SEL4514C	Pure green	Water clear	2.0	2.5	10	26		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
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	
Tstg	°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		
Top	°C	−30 to +80		
Tsta	°C	−30 to +100		