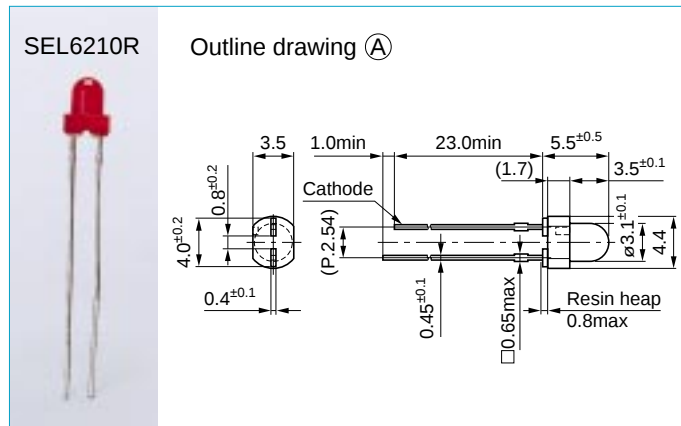
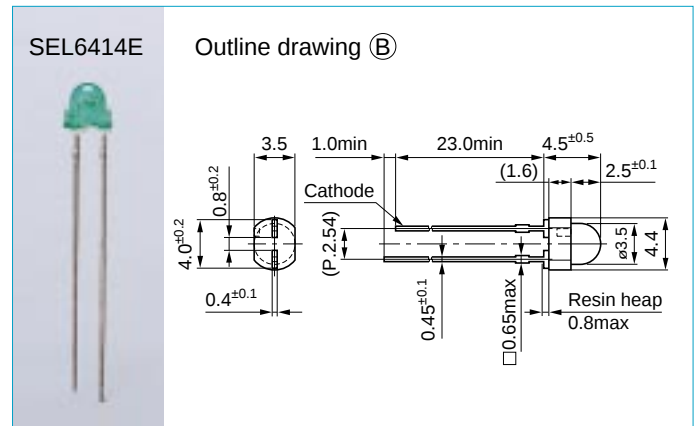


Round-type contact mount LEDs (for automatic insertion)

SEL6010 series (Standard type)



SEL6014 series (Wide viewing angle)

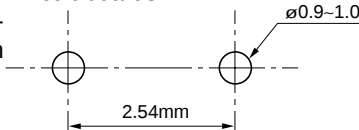


Absolute maximum ratings (Ta=25°C)

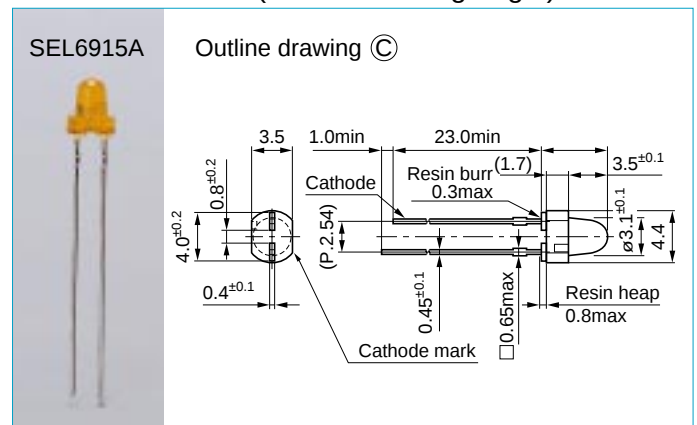
Symbol	Unit	Ratings
I _F	mA	30
I _{FP}	mA	100
V _R	V	3
Top	°C	-30 to +85
Tstg	°C	-30 to +100

SEL6000 series LEDs packaged on tapes can withstand shocks caused by insertion machines; Thus, they can be contact-mounted automatically on circuit boards.

Recommended dimensions of insertion holes on printed circuit boards



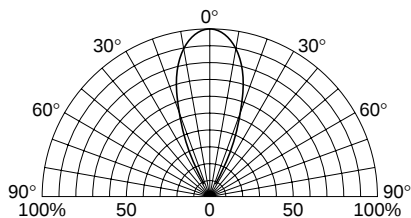
SEL6015 series (Narrow viewing angle)



External dimensions: Unit: mm Tolerance: ± 0.3

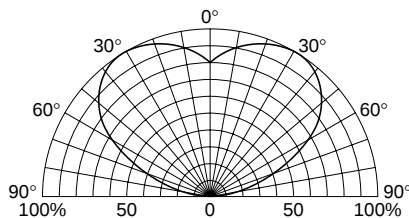
Viewing angle

SEL6010 series



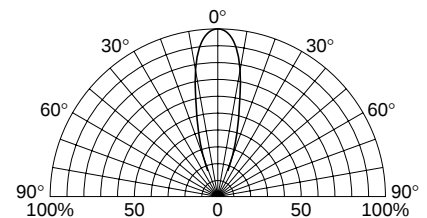
Viewing angle of a non-diffused lens

SEL6014 series

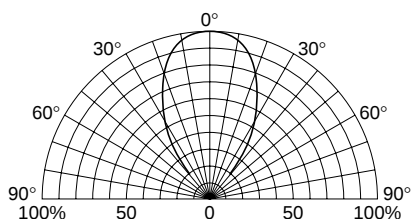


Viewing angle of a non-diffused lens

SEL6015 series



Viewing angle of a non-diffused lens



Viewing angle of a diffused lens

Type No.	Display form (ϕ : mm)	Type of lens	Emitting color	Electro-optical characteristics (Ta=25°C)										Outline drawing	
				V _F (V)		Condition I _F (mA)	I _R (μ A)	Condition V _R (V)	I _V (mcd)	Condition I _F (mA)	λ p	$\Delta\lambda$			
				typ	max								typ		(nm) typ
SEL6210R	●3.1	Red tinted, diffused	High intensity red	1.9	2.5	10	50	3	12	20	630	35	Ⓐ		
SEL6210S	●3.1	Red tinted, non-diffused							25						
SEL6410G	●3.1	Green tinted, diffused	Green	2.0					15					560	20
SEL6410E	●3.1	Green tinted, non-diffused							45						
SEL6510G	●3.1	Green tinted, diffused	Pure green						5	555					
SEL6510C	●3.1	Un-tinted, non-diffused							16						
SEL6710Y	●3.1	Yellow tinted, diffused	Yellow	1.9					5	10	570	40			
SEL6710K	●3.1	Yellow tinted, non-diffused							15						
SEL6810D	●3.1	Orange tinted, diffused	Amber						4					610	35
SEL6810A	●3.1	Orange tinted, non-diffused							10						
SEL6910D	●3.1	Orange tinted, diffused	Orange						6.5	587	33				
SEL6910A	●3.1	Orange tinted, non-diffused							14						
SEL6214S	●3.5	Red tinted, non-diffused	High intensity red	1.9	2.5	10	50	3	10	20	630	35	Ⓑ		
SEL6414E	●3.5	Green tinted, non-diffused	Green	2.0					12		560	20			
SEL6514C	●3.5	Un-tinted, non-diffused	Pure green						6		555				
SEL6814A	●3.5	Orange tinted, non-diffused	Amber	1.9					5	610	35				
SEL6914A	●3.5	Orange tinted, non-diffused	Orange						5	587	33				
SEL6215S	●3.1	Red tinted, non-diffused	High intensity red	1.9	2.5	10	50	3	30	20	630	35	Ⓒ		
SEL6415E	●3.1	Green tinted, non-diffused	Green	2.0					50		560	20			
SEL6515C	●3.1	Un-tinted, non-diffused	Pure green						18		555				
SEL6815A	●3.1	Orange tinted, non-diffused	Amber	1.9					30		610	35			
SEL6915A	●3.1	Orange tinted, non-diffused	Orange						40		587	33			

■Using contact mount LEDs packaged on tapes

- 1. Printed circuit board**
 - One-side printed circuit board is recommended.
 - If there are several SMD parts on the same printed circuit board, insert the LEDs after the adhesive for other SMD parts hardened.
- 2. Insertion conditions**
 - Use low insertion pusher pressure, as much as possible.
 - Cut and clinch: Panasert T pattern is recommended.
For N pattern, make the clinching angle of the LED's anode as small as possible.
- 3. Soldering conditions**
 - Preheating must be less than 90°C (temperature on printed circuit board's bottom surface) for no more than two minutes
 - Solder dipping must be made at a temperature of 250°C for no more than 3 seconds.