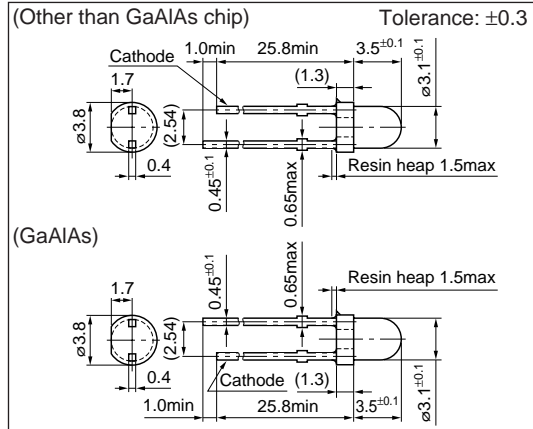


# 3 $\phi$ Round Standard LED

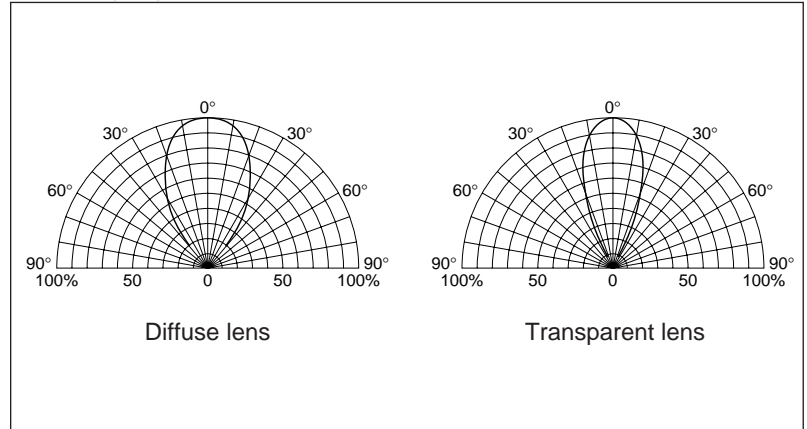
## SEL2010 Series

### External Dimensions

(Unit: mm)



### Directivity (Typical)



### Absolute maximum ratings (Ta=25°C)

Symbol	Unit	Rating						Condition
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
I <sub>F</sub>	mA	30						
$\Delta I_F$	mA/°C	-0.45						Above 25°C
I <sub>FP</sub>	mA	100					70	f=1kHz, tw $\leq$ 100 $\mu$ s
V <sub>R</sub>	V	3		4		5		
Top	°C	-30 to +85			-25 to +85			
T <sub>stg</sub>	°C	-30 to +100						

### Electrical Optical characteristics (Ta=25°C)

Emitting color	Part Number	Lens color	Forward voltage		Reverse current		Intensity		Peak wavelength		Spectrum half width		Chip material	
			V <sub>F</sub>	Condition	I <sub>R</sub>	Condition	I <sub>V</sub>	Condition	$\lambda_P$	Condition	$\Delta\lambda$	Condition		
			(V)	I <sub>F</sub> (mA)	( $\mu$ A)	V <sub>R</sub> (V)	(mcd)	I <sub>F</sub> (mA)	(nm)	I <sub>F</sub> (mA)	(nm)	I <sub>F</sub> (mA)		
Deep red	SEL2110S	Transparent red	2.0	2.5	10	50	3	4.0	10	700	10	100	10	GaP
	SEL2110R	Diffused red						1.8						
	SEL2110W	Diffused white						1.8						
High-intensity red	SEL2610C	Clear	1.75	2.2	10	100	3	350	20	660	10	30	10	GaAlAs
Red	SEL2210S	Transparent red	1.9	2.5	10	50	3	40	20	630	10	35	10	GaAsP
	SEL2210R	Diffused red						15						
	SEL2210W	Diffused white						15						
Amber	SEL2810A	Transparent orange	1.9	2.5	10	50	3	22	10	610	10	35	10	GaAsP
	SEL2810D	Diffused orange						9.0						
Orange	SEL2910A	Transparent orange	1.9	2.5	10	50	3	16	10	587	10	33	10	GaAsP
	SEL2910D	Diffused orange						8.0						
Ultra-high-intensity yellow	SELU2710C	Clear	2.0	2.5	10	100	4	270	20	572	10	15	10	AlGaInP
Yellow	SEL2710K	Transparent yellow	2.0	2.5	10	50	3	40	10	570	10	30	10	GaP
	SEL2710Y	Diffused yellow						14						
Green	SEL2410E	Transparent green	2.0	2.5	10	50	3	77	20	560	20	20	10	GaP
	SEL2410G	Diffused green						20						
Pure green	SEL2510C	Clear	2.0	2.5	10	50	3	43	20	555	10	20	10	InGaN
	SEL2510G	Diffused green						8.2						
Ultra-high-intensity pure green	SELU2D10C	Clear	3.3	4.0	20	10	5	1200	20	525	10	35	10	InGaN
Ultra-high-intensity blue	SELU2E10C	Clear						400						
Blue	SEL2E10C	Clear	3.8	4.8	20	10	5	60	20	430	10	65	10	GaN