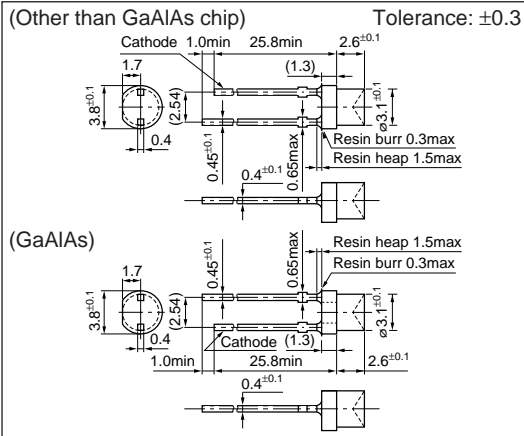


3 ϕ Inverted-cone LED for surface illumination

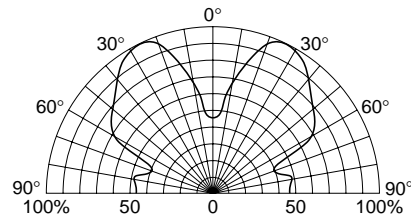
SEL2013 Series

External Dimensions

(Unit: mm)



Directivity (Typical)



Absolute maximum ratings (Ta=25°C)

Symbol	Unit	Rating	Condition
I_F	mA	30	
ΔI_F	mA/°C	-0.45	Above 25°C
I_{FP}	mA	100	$f=1\text{kHz}$, $t_w \leq 100\mu\text{s}$
V_R	V	3	
Top	°C	-30 to +85	
Tstg	°C	-30 to +100	

Electrical Optical characteristics (Ta=25°C)

Emitting color	Part Number	Lens color	Forward voltage		Condition	Reverse current		Intensity		Peak wavelength		Spectrum half width		Chip material
			V_F	V_F		I_R	V_R	I_V	I_F	λ_P	$\Delta\lambda$	$\Delta\lambda$	I_F	
			(V)	(V)	(μA)	(V)	(mcd)	(mA)	(nm)	(nm)	(nm)	(mA)		
High-intensity red	SEL2613CS-S	Transparent light red	1.7	2.5	10	100	3	80	20	660	10	30	10	GaAlAs
Red	SEL2213C	Clear	1.9	2.5	10	50	3	7.0	20	630	10	35	10	GaAsP
Amber	SEL2813A	Transparent orange	1.9	2.5	10	50	3	8.0	20	610	10	35	10	
Orange	SEL2913K	Transparent light yellow	1.9	2.5	10	50	3	8.0	20	587	10	33	10	GaP
Yellow	SEL2713K	Transparent yellow	2.0	2.5	10	50	3	17	20	570	10	30	10	
Green	SEL2413E	Transparent green	2.0	2.5	10	50	3	14	20	560	10	20	10	GaP
	SEL2413G	Diffused green						12						
Pure green	SEL2513E	Transparent green	2.0	2.5	10	50	3	5.0	20	555	10	20	10	