

Working Together for a Greener Society

Future of Power Electronics and the Earth



LED Selection Guide

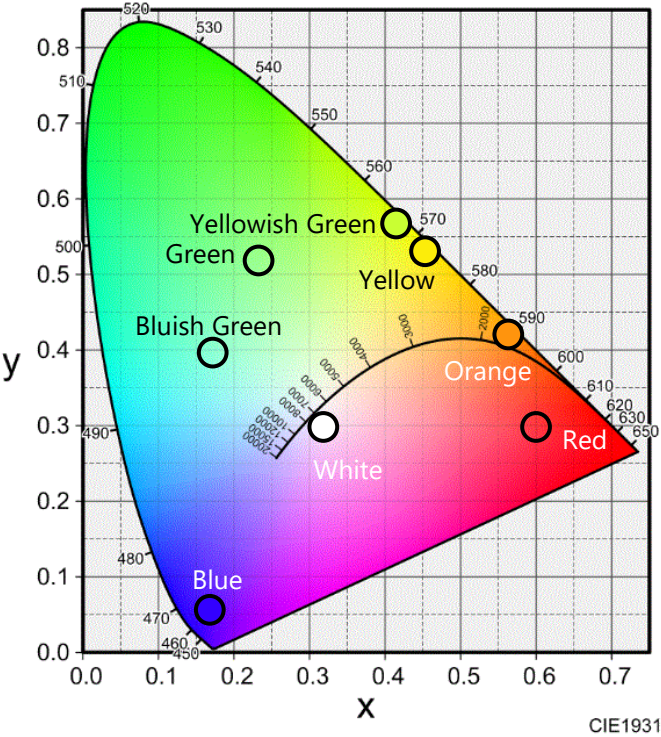
- ◆ General-purpose Chip LEDs
- ◆ Through-hole LEDs
- ◆ Food Lighting LEDs
- ◆ Ultra-high CRI LEDs
- ◆ Ultra-high Brightness LEDs
- ◆ Infrared LED

All information in this guide is as of the date of publication. Please make sure that you are using the latest version of the guide. If you need more product information, please refer to our data sheets.

<https://www.sanken-ele.co.jp/en>

Standard Products

We have a product lineup of LEDs with wide-range chromaticities. The following tables help you select LEDs optimal for your application (e.g., indicators, switches, and automotive interiors).



Package Example



Selection Guide

Color Range	Package	Page
Blue	3528 2835 1608	P.5
Bluish Green to Green to Yellow	3528 3014 1608	P.6
Orange to Red	3528 3014 2538 1608	P.7 P.8
White	3528 2835 1608	P.9

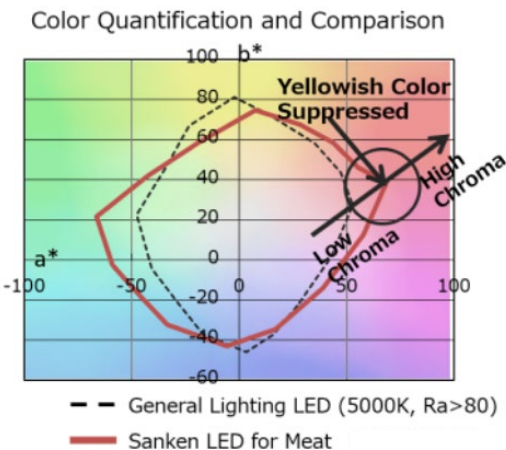
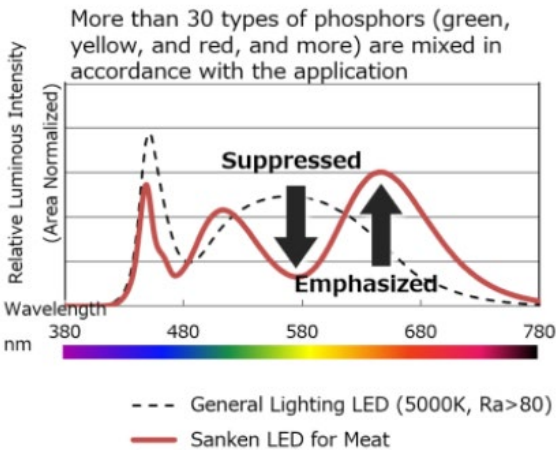
Custom Products

If our standard products do not have the color you want, spectrum-level customization is available. Various approaches will be taken so that you can compare samples, such as color quantification or visual confirmation. We can offer you a "custom light" suitable for your application.

Orders are subject to certain conditions, including mass production quantities and specifications. Please do not hesitate to contact us for more information.

Inquiry Form: <https://www.semicon.sanken-ele.co.jp/en/contact/form/>

Example Customization: Redness Emphasized, Yellowness Suppressed

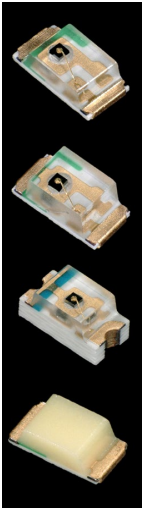
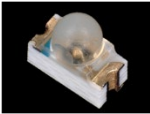
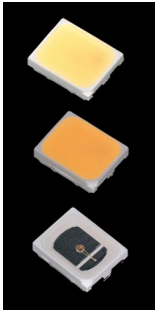


Color Chart for General-purpose Chip LEDs



You can select the product by package type and color.

Color tuning may also be available for the colors not listed in the color chart. If you have any questions or requests, please contact us on our website ([Inquiry Form](#)).

Package	Color	Dominant Wavelength /Chromaticity	Part Number			
			Low Brightness	Medium Brightness	High Brightness	Ultra-high Brightness
Flat Lens LED 1608 	Deep Red	637 nm		SECU1611C-N20		
	Red	624 to 625 nm	SECU1205C-S	SECU1205C-NK		
		622 nm		SECU1211C20	SECU1211C-NH20	
		613 nm		SECU1R11C-S20		
	Amber	605 nm	SECU1805C-S	SECU1811C-S20	SECU1811C-N20	
	Light Amber	597 nm	SECU1B07C			
	Orange	589 to 592 nm	SECU1905C-S	SECU1911C-S20	SECU1911C-N20	
	Yellow	571 nm		SECU1711C-S20		
	Green	563 nm	SECU1407C-TG			
		564 nm	SECU1411C-TG20			
	Pure Green	525 nm		SECG1D07C-SD		
	Bluish Green	505 nm		SECG1UB07YPT		
	Blue	465 nm	SECG1E07C-SD	SECG1E07C-PD		
	White	x = 0.206 to 0.303 y = 0.244 to 0.380	SECG1WH07YSDT3	SECE1WA07YPT2 SECE1WC07YPDT SECG1WA07Y-SD SECG1WA07YSDT SECG1WD07YPD SECG1WV07YPD SECE1WCA1YSDT SECE1WBA1YPT		
Dome Lens LED 1608 	Red	622 nm			SECU1213C-N20	
	Amber	605 nm			SECU1813C-N20	
	Orange	590 to 592 nm		SECU1913C-SE8	SECU1913C-N20	
	Yellow	570 nm		SECU1713C-S		
	Green	564 nm	SECU1413C-TG20			
	Blue	461 nm		SECG1E13CP		
Flat LED 3528 3014 	Red	652 nm (Peak Wavelength)			SEP161424T	
		622 nm		SEP121404A		
		620 nm				SEP1P21L21DA
		613 nm	SECU1R0EC-SA			
	Amber	611 nm		SECU180EC-SA		
		605 nm		SEP181406A	SEP181404TA	SEP1P81L19DA
	Orange	589 to 592 nm	SECU190EC-ST3A	SEP191404A	SEP1P91407DTA	SEP1P91L19DA
	Yellow	568 to 570 nm			SEP1P71407DTA	SEP1P71L19DA
	Green	527 nm		SEP1D1402DT3A	SEP1D1419DTA	SEP1P41L19DA
	Pure Green	521 nm				SEP1D1L19DA
	Blue	470 to 471 nm			SEP1E1404 SEP1E1404D	SEP1E1L21DA
	White	x = 0.267 to 0.344 y = 0.282 to 0.451			SEP1WB1410DA SEP1WB1433D SEP1WR1407DTA SEP1WB1433	SEP1WA1L19DA SEP1WC1L19DTA SEP1WD1L21DA

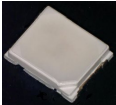
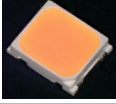
High Brightness Flat LEDs



The high brightness flat LEDs for automotive interior are available.

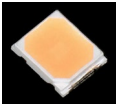
■ LEDs for Automotive Interior: Blacked-out Panel

*Under development

Package	Part Number	Color	Luminous Intensity	Chromaticity (x, y)	I _F (max.)	Remarks
Flat LED 2835 	SEP1WA1L19DA*	White	4300 mcd	0.310, 0.315	80 mA	For Blacked-out Panel (→ P.16)
	SEP1WC1L19DTA	White	3500 mcd	0.267, 0.279	80 mA	
	SEP1E1L21DA*	Blue	3100 mcd	0.126, 0.061	150 mA	
	SEP1D1L19DA*	Pure Green	4000 mcd	0.173, 0.717	80 mA	
	SEP1P41L19DA*	Green	8400 mcd	0.390, 0.580	80 mA	
	SEP1P71L19DA*	Yellow	7700 mcd	0.440, 0.540	80 mA	
	SEP1P91L19DA*	Orange	5100 mcd	0.580, 0.410	80 mA	
	SEP1P81L19DA*	Amber	3200 mcd	0.640, 0.350	80 mA	
	SEP1P21L21DA*	Red	5100 mcd	0.688, 0.309	240 mA	

■ LEDs for Automotive Interior: In-vehicle Lighting

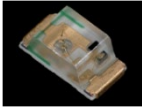
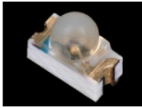
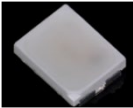
*Under development

Package	Part Number	Color	Luminous Flux	Chromaticity (x, y)	I _F (max.)	Remarks
Flat LED 2835 	SEP1WD1L21DA*	White	60 lm	0.3447, 0.3553	240 mA	For In-vehicle Lighting

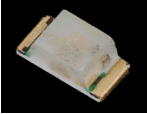
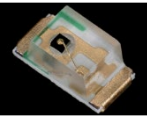
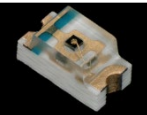
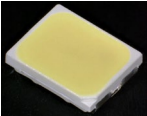
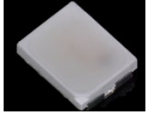
Please visit our website and learn more about our LEDs.

Ultra-high Brightness LEDs
https://www.semicon.sanken-ele.co.jp/en/guide/high_intensity_led.html

*Under development

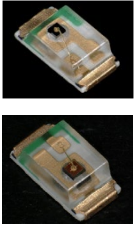
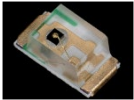
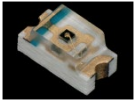
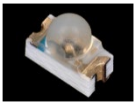
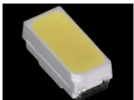
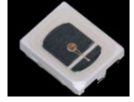
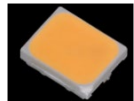
Package L×W×H (mm)	Part Number	Color	Forward Voltage (V)	luminous Intensity (mcd)	Chromaticity X, Y	Measurement Condition (mA)	Light Dispersion Angle/ Viewing Angle (deg)	Power Dissipation (mW)
1.6×0.8×0.7 	SECG1E07C-SD	Blue	3.1	50	—	10	150	108
	SECG1E07C-PD	Blue	3.1	88	—	10	140	105
1.6×0.8×1.5 	SECG1E13CP	Blue	2.9	329	—	10	50	99
3.5×2.8×1.2 	SEP1E1404	Blue	3.3	550	—	20	120	120
3.5×2.8×1.2 	SEP1E1404D	Blue	3.1	550	—	20	120	108
2.8×3.5×0.7 	SEP1E1L21DA*	Blue	2.9	3100	—	100	120	540

*Under development

Package L×W×H (mm)	Part Number	Color	Forward Voltage (V)	Luminous Intensity (mcd)	Chromaticity X, Y	Measurement Condition (mA)	Light Dispersion Angle/ Viewing Angle (deg)	Power Dissipation (mW)
1.6×0.8×0.7 	SECG1D07C-SD	Pure Green	2.9	170	—	10	150	111
1.6×0.8×0.7 	SECG1UB07YPT	Bluish Green	2.7	120	—	5	160	99
1.6×0.8×0.7 	SECU1407C-TG	Green	2.0	15	—	10	130	75
1.6×0.8×1.1 	SECU1711C-S20	Yellow	2.1	96	—	20	130	72
	SECU1411C-TG20	Green	2.1	30	—	20	130	72
1.6×0.8×1.5 	SECU1713C-S	Yellow	2.1	300	—	20	60	100
	SECU1413C-TG20	Green	2.1	75	—	20	60	100
3.5×2.8×1.2 	SEP1P71407DTA	Yellow	3.1	800	0.430, 0.545	10	120	111
3.5×2.8×1.2 	SEP1D1402DT3A	Green	3.0	325	—	10	120	105
	SEP1D1419DTA	Green	2.45	1000	—	10	120	90
2.8×3.5×0.7 	SEP1P71L19DA*	Yellow	2.9	7700	0.440, 0.540	50	120	288
	SEP1D1L19DA*	Pure Green	2.9	4000	—	50	120	288
	SEP1P41L19DA*	Green	2.9	8400	0390, 0580	50	120	288

Orange, Red

*Under development

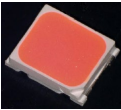
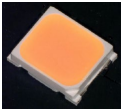
Package L×W×H (mm)	Part Number	Color	Forward Voltage (V)	luminous Intensity (mcd)	Chromaticity X, Y	Measurement Condition (mA)	Light Dispersion Angle/ Viewing Angle (deg)	Power Dissipation (mW)
1.6×0.8×0.55 	SECU1205C-NK	Red	2.0	150	—	10	130	75
	SECU1205C-S	Red	1.9	45	—	10	130	75
	SECU1805C-S	Amber	1.9	50	—	10	130	75
	SECU1905C-S	Orange	1.9	40	—	10	130	75
1.6×0.8×0.7 	SECUB07C	Light Amber	1.95	90	—	10	150	111
1.6×0.8×1.1 	SECUC1611C-N20	Deep Red	2.0	204	—	20	140	72
	SECUC1211C-NH20	Red	2.0	450	—	20	140	84
	SECUC1211C20	Red	2.0	181	—	20	120	84
	SECUC1R11C-S20	Red	2.0	160	—	20	140	72
	SECUC1811C-N20	Amber	2.0	430	—	20	140	72
	SECUC1811C-S20	Amber	2.0	145	—	20	140	72
	SECUC1911C-N20	Orange	2.0	401	—	20	140	72
	SECUC1911C-S20	Orange	2.0	190	—	20	140	72
1.6×0.8×1.5 	SECUD1213C-N20	Red	2.1	1000	—	20	60	100
	SECUD1813C-N20	Amber	2.0	1600	—	20	60	96
	SECUD1913C-N20	Orange	2.1	1100	—	20	60	100
	SECUD1913C-SE8	Orange	2.1	470	—	20	60	100
3.0×1.4×1.2 	SECUE1R0EC-SA	Red	2.0	200	—	20	120	75
	SECUE180EC-SA	Amber	2.0	200	—	20	120	75
	SECUE190EC-ST3A	Orange	2.0	45	—	20	120	75
3.5×2.8×1.2 	SEPU181404TA	Amber	2.0	600	—	20	120	81
3.5×2.8×1.2 	SEP121404A	Red	2.1	600	—	20	120	78
	SEP181406A	Amber	2.0	245	—	20	120	75
	SEP191404A	Orange	2.0	630	—	20	120	75
3.5×2.8×1.2 	SEP1P91407DTA	Orange	3.2	1500	0.562, 0.432	20	120	111

General-purpose Chip LEDs

Orange, Red

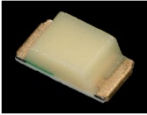
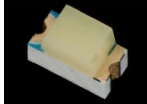
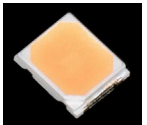


*Under development

Package L×W×H (mm)	Part Number	Color	Forward Voltage (V)	luminous Intensity (mcd)	Chromaticity X, Y	Measurement Condition (mA)	Light Dispersion Angle/ Viewing Angle (deg)	Power Dissipation (mW)
2.8×3.5×0.7 	SEP1P21L21DA*	Red	2.9	5100	0.688, 0.308	150	120	864
	SEP1P81L19DA*	Amber	2.9	3200	0.640, 0.350	50	120	288
	SEP1P91L19DA*	Orange	2.9	5100	0.580, 0.410	50	120	288

White

*Under development

Package L×W×H (mm)	Part Number	Color	Forward Voltage (V)	luminous Intensity (mcd)	Chromaticity X, Y	Measurement Condition (mA)	Light Dispersion Angle/ Viewing Angle (deg)	Power Dissipation (mW)
1.6×0.8×0.7 	SECE1WA07YPT2	White	2.8	49	0.273, 0.281	5	140	108
	SECE1WC07YPDT	White	2.8	150	0.3041, 0.3803	10	160	108
	SECG1WA07Y-SD	White	3.0	95	0.284, 0.269	5	160	108
	SECG1WA07YSDT	White	3.2	110	0.303, 0.318	10	160	111
	SECG1WD07YPD	White	2.8	120	0.280, 0.273	5	160	108
	SECG1WV07YPD	White	3.2	240	0.245, 0.244	10	160	108
	SECG1WH07YSDT3	White	2.8	28	0.2064, 0.3008	10	160	102
1.6×0.8×1.1 	SECE1WCA1YSDT	White	3.2	110	0.250, 0.256	10	160	111
	SECE1WBA1YPT	White	2.8	200	0.267, 0.246	10	160	90
3.5×2.8×1.2 	SEP1WB1410DA	White	3.2	2500	0.315, 0.310	20	120	148
	SEP1WB1433	White	3.2	2400	0.301, 0.292	20	120	140
	SEP1WB1433D	White	3.0	2400	0.301, 0.292	20	120	140
	SEP1WR1407DTA	White	3.2	2400	0.3200, 0.3090	20	120	148
2.8×3.5×0.7  	SEP1WA1L19DA*	White	2.9	4300	0.310, 0.315	30	120	288
	SEP1WC1L19DTA	White	2.90	—	0.2667, 0.2793	30	120	280
	SEP1WD1L21DA*	White	2.9	—	0.3447, 0.3553	150	120	864

Through-hole LEDs



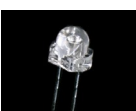
We have a wide range of through-hole LEDs in various colors.
You can select the product by package type ($\phi 3$ mm round, $\phi 3$ mm inverted cone type, and $\phi 5$ mm round) according to your application.

Package	Color	Dominant Wavelength/ Chromaticity	Lens Color	Part Number	Type
φ3 mm Round 	Deep Red	639.0 nm	Clear	SELU2610C-S	
				SELU6614C-S	Wide viewing angle, no LED-to-PCB clearance required
	Red	624.0 nm	Clear	SELU2210C-S	
			Diffused, Red	SELU6214R-S	Wide viewing angle, no LED-to-PCB clearance required
	Amber	605.0 nm	Clear	SELU2810C-S	
		607.0 nm		SELU6814C-S	Wide viewing angle, no LED-to-PCB clearance required
	Orange	590.0 nm	Diffused, Orange	SELU2910D-S	
			Clear	SELU6914C-S	Wide viewing angle, no LED-to-PCB clearance required
	Green	563.5 nm	Clear	SELU2410C-TG	
		562.0 nm	Diffused, Green	SELU6414G-S	Wide viewing angle, no LED-to-PCB clearance required
	Pure Green	525.0 nm	Clear	SELG6D14C-SD	Wide viewing angle, no LED-to-PCB clearance required
	Blue	460.0 nm	Clear	SELS6E14C-D	Wide viewing angle, no LED-to-PCB clearance required
		465.0 nm	Clear	SELG2E10C-S	
				SELG6E10C-S20	No LED-to-PCB clearance required
White	x = 0.310, y = 0.320	Clear	SELG2WA10C-S		
	x = 0.300, y = 0.295		SELS6WA10CT2	No LED-to-PCB clearance required	
φ3 mm Inverted Cone Type 	Red	624.0 nm	Clear	SELU6213C-S	No LED-to-PCB clearance required
φ5 mm Round 	Orange	590.0 nm	Clear	SELU1910CXM-S	Wide viewing angle
	Yellow	573.0 nm	Clear	SELU1710CXM-S	Wide viewing angle
	Green	563.0 nm	Clear	SELU1410CXM-TG	Wide viewing angle

Through-hole LEDs

Blue, Green, Yellow

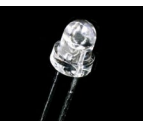


Package	Part Number	Color	Lens Color	Forward Voltage (V)	Luminous Intensity (mcd)	Dominant Wavelength (nm) Chromaticity X, Y	Measurement Condition (mA)	Type
φ3 mm Round    	SELG2E10C-S	Blue	Clear	3.3	800	465.0	20	—
	SELG6E10C-S20	Blue	Clear	3.3	550	465.0	20	No LED-to-PCB clearance required
	SELS6E14C-D	Blue	Clear	2.9	600	460.0	20	Wide viewing angle, no LED-to-PCB clearance required
	SELG6D14C-SD	Pure Green	Clear	3.3	1800	525.0	20	Wide viewing angle, no LED-to-PCB clearance required
φ3 mm Round  	SELU2410C-TG	Green	Clear	2.1	300	563.5	20	—
	SELU6414G-S	Green	Diffused, Green	2.1	30	562.0	20	Wide viewing angle, no LED-to-PCB clearance required
φ5 mm Round 	SELU1410CXM-TG	Green	Clear	2.1	200	563.0	20	Wide viewing angle
	SELU1710CXM-S	Yellow	Clear	2.1	550	573.0	20	Wide viewing angle

Through-hole LEDs

Deep Red, Red, Orange



Package	Part Number	Color	Lens Color	Forward Voltage (V)	Luminous Intensity (mcd)	Dominant Wavelength (nm) Chromaticity X, Y	Measurement Condition (mA)	Type
φ3 mm Round    	SELU2610C-S	Deep Red	Clear	2.0	300	639.0	20	—
	SELU6614C-S	Deep Red	Clear	2.0	150	639.0	20	Wide viewing angle, no LED-to-PCB clearance required
	SELU2210C-S	Red	Clear	2.0	350	624.0	20	—
	SELU6214R-S	Red	Diffused, Red	2.0	150	624.0	20	Wide viewing angle, no LED-to-PCB clearance required
φ3 mm Inverted Cone 	SELU6213C-S	Red	Clear	2.0	30	624.0	20	No LED-to-PCB clearance required
φ3 mm Round    	SELU2810C-S	Amber	Clear	2.0	400	605.0	20	—
	SELU6814C-S	Amber	Clear	2.0	230	607.0	20	Wide viewing angle, no LED-to-PCB clearance required
	SELU2910D-S	Orange	Diffused, Orange	2.0	300	590.0	20	—
	SELU6914C-S	Orange	Clear	2.0	180	590.0	20	Wide viewing angle, no LED-to-PCB clearance required
φ5 mm Round 	SELU1910CXM-S	Orange	Clear	2.0	450	590.0	20	Wide viewing angle

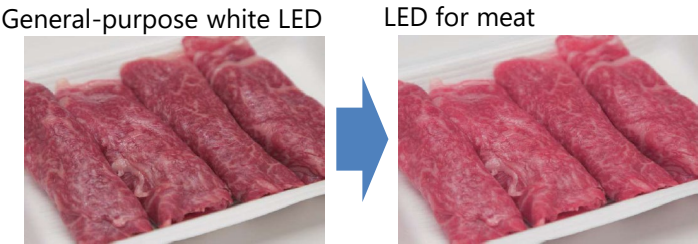
Package	Part Number	Color	Lens Color	Forward Voltage (V)	Luminous Intensity (mcd)	Chromaticity X, Y	Measurement Condition (mA)	Type
φ3 mm Round  	SELG2WA10C-S	White	Clear	3.3	3000	0.310, 0.320	20	—
	SELS6WA10CT2	White	Clear	2.9	5000	0.300, 0.295	20	No LED-to-PCB clearance required

LEDs to Offer Natural Color Appearance of Foods More than Ever

To make various foods look appetizing, we have verified our LEDs' lights through optical and biochemical approaches.

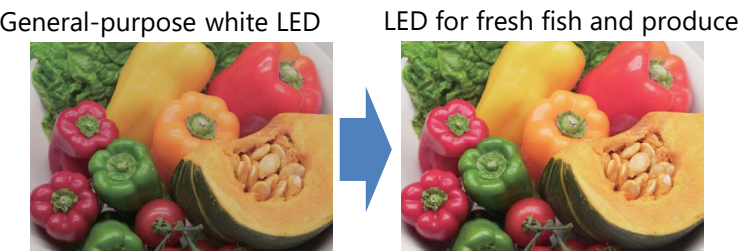
Our LEDs will bring out visual attractiveness of the following foods without losing their true colors.

Meat



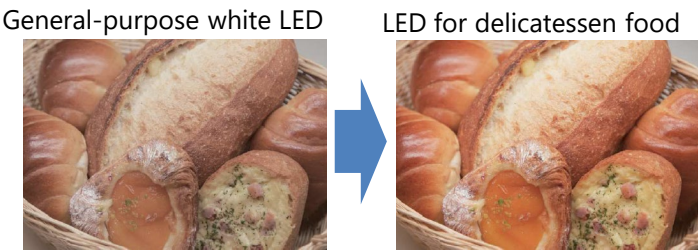
- ✓ Makes redness more vivid
- ✓ Provides more natural-looking colors; emphasizes redness in meat but yields natural whiteness in fat

Fresh Fish and Produce



- ✓ Makes bluefish scales (silver white) look more vivid as well as red-fleshed fish
- ✓ Provides whiteness in packing trays and showcases
- ✓ Makes fruits and vegetables look more vibrant and fresh

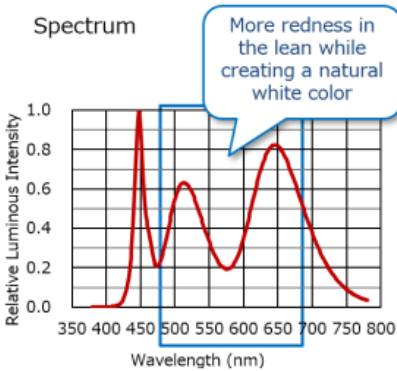
Delicatessen Food



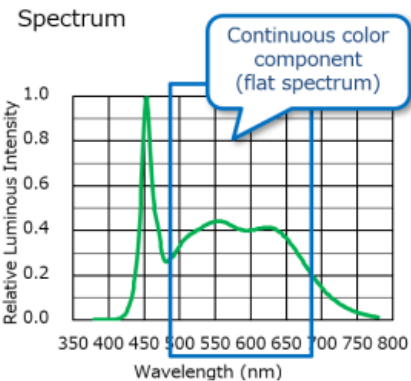
- ✓ Makes breads look more fluffy and fried foods look more crispy
- ✓ Contains many color components from yellow to red, thus enhancing the contrasts of browned portions

Example

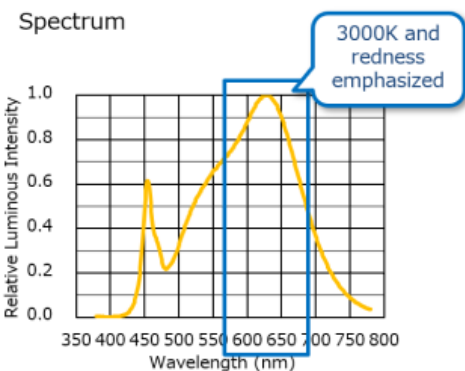
Meat



Fresh Fish and Produce



Delicatessen Food



LEDs to Deliver High Quality Lighting

The SEP1A series are high color rendering LED devices that have performance quality defined by not only the average color rendering index, Ra, but also the special color rendering index, Ri. By using our LED devices, you can realize lighting equipment with the same performance as color rendering AAA fluorescent lamps commonly used for color evaluation.

Features

- High color rendering to faithfully reproduce true colors
Ra = 95 (typ.), Ri = 90 (typ.)
- High luminous efficacy
- Unique technology to improve the trade-off between color rendering and luminous efficacy
- Near-natural but discoloration-proof light
- Ideal color rendering for color evaluation
- Ultra-high color rendering but high efficiency

General White LED



SEP1A Series



Unlike general white LED lighting, colors such as yellow, orange, and light blue appear in the same manner as AAA fluorescent lamp lighting.

Applications

- Household lighting, office lighting, commercial lighting (e.g., ceiling lights, downlights, indirect lighting)
- Inspection lighting, evaluation lighting (e.g., textile, printing, and manufacturing industries)
- Shooting light sources (e.g., floodlights, ring lights)



Package



L×W×H: 2.8×3.5×0.7 mm
Bare lead frame: Pb-free
Highly heat-dissipating: $\theta_{(J-S)} = 25 \text{ }^{\circ}\text{C/W}$

Selection Guide to Ultra-high CRI LEDs

Part Number	Forward Voltage V_F (Typ.)	Luminous Flux Φ_v (Typ.)	Luminous Efficacy η (Typ.)	Color Temperature CCT (Typ.)	Average Color Rendering Index Ra (Typ.)	Special Color Rendering Index Ri (Typ.)
SEP1AQ1L92LL	2.71 V	19.6 lm	145 lm/W	5000 K*	$\geq 95^*$	$\geq 90^*$
SEP1AQ1L92SS	2.81 V		140 lm/W			

* When the SEP1AQ1L92LL and the SEP1AQ1L92SS mounted in pairs.

Please visit our website to learn more about our ultra-high CRI LEDs.
https://www.semicon.sanken-ele.co.jp/en/guide/high_color_rendering_led.html

Suitable for Black-out Design for Automotive Interiors

The SEP1xx1L series are ultra-high brightness LEDs that achieve not only high reliability but also high efficiency and high-brightness for automotive interiors. Above all, this series is ideal for backlights using blacked-out instrument panels with low light transmission rates. The new LED devices achieve industry-leading* ultra-high brightness by combining our new technologies: a structure with high heat dissipation, reflector resin with high heat/light resistance, and an LED chip with high heat resistance.

* Based on our survey about SEP1WC1L19DTA as of May 2025.

Features

- Ultra-high brightness
- Automotive-grade qualified
- Thermally enhanced surface-mount package
- ESD-protection Zener diode include
- No light-scattering sheet or lens embossing required

Package



Standard Size for Automotive
L×W×H: 2.8×3.5×0.7 mm

Applications

- For automotive interior applications such as:
- Blacked-out instrument panel display with low light transmission
 - Footlight and other lighting equipment



Selection Guide to Ultra-high Brightness LEDs

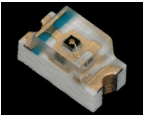
*Under development

Part Number	Color	Luminous Intensity (I _F)	Chromaticity (x, y)	I _F (Max.)
SEP1WA1L19DA*	White	4300 mcd (30 mA)	0.310, 0.315	80 mA
SEP1WC1L19DTA		3500 mcd (30 mA)	0.267, 0.279	80 mA
SEP1E1L21DA*	Blue	3100 mcd (100 mA)	0.126, 0.061	150 mA
SEP1D1L19D*	Pure Green	4000 mcd (50 mA)	0.173, 0.717	80 mA
SEP1P41L19DA*	Green	8400 mcd (50 mA)	0.390, 0.580	80 mA
SEP1P71L19DA*	Yellow	7700 mcd (50 mA)	0.440, 0.540	80 mA
SEP1P91L19DA*	Orange	5100 mcd (50 mA)	0.580, 0.410	80 mA
SEP1P81L19DA*	Amber	3200 mcd (50 mA)	0.640, 0.350	80 mA
SEP1P21L21DA*	Red	5100 mcd (150 mA)	0.688, 0.309	240 mA

Please visit our website to learn more about our ultra-high brightness LEDs.
https://www.semicon.sanken-ele.co.jp/en/guide/high_intensity_led.html

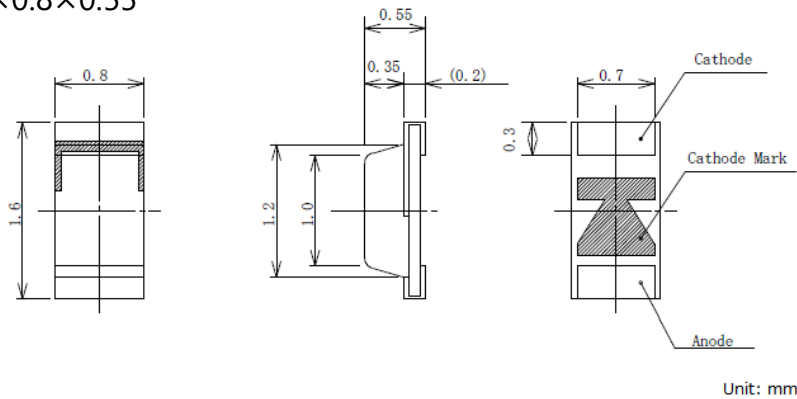
We offer the infrared LED with a peak wavelength of 850 nm.
The surface mount type package is available.
Our infrared LED is suitable for sensors, infrared light sources, and infrared communication.

 Infrared LED

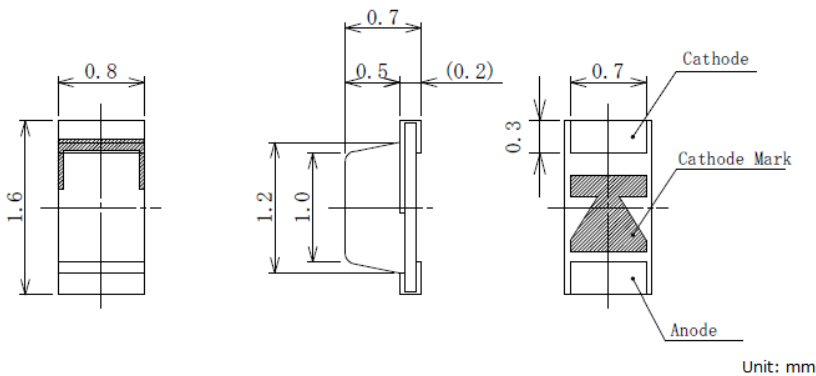
Package	Part Number	Forward Voltage (V)	Radiation Intensity I_e (mW/sr)	Peak Wavelength λ_p (nm)	Measurement Condition	Type
L×W×H: 1.6×0.8×1.1 mm 	SEC160811C-N	1.6	4.2	850	$I_F = 50\text{ mA}$	—

The physical dimensions listed below are typical examples.
For the physical dimensions of each product, please refer to the corresponding data sheet.

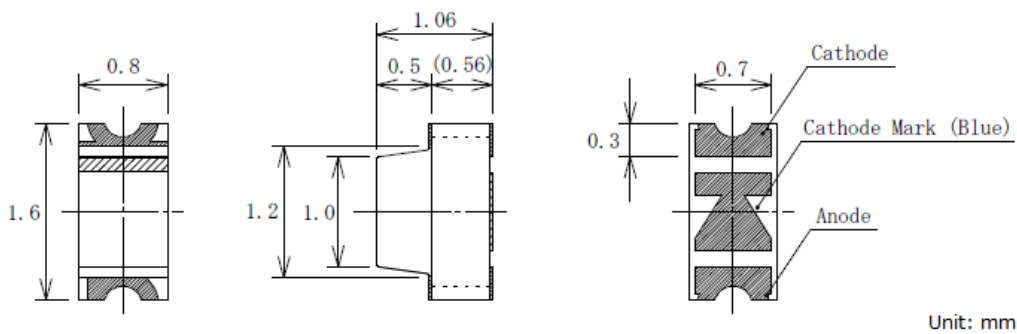
L×W×H: 1.6×0.8×0.55



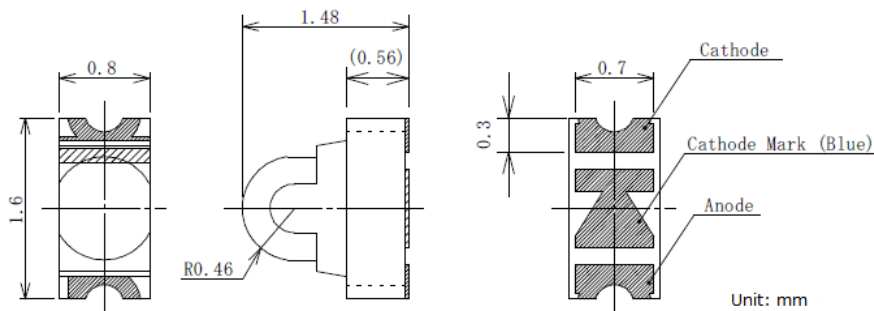
L×W×H: 1.6×0.8×0.7



L×W×H: 1.6×0.8×1.1

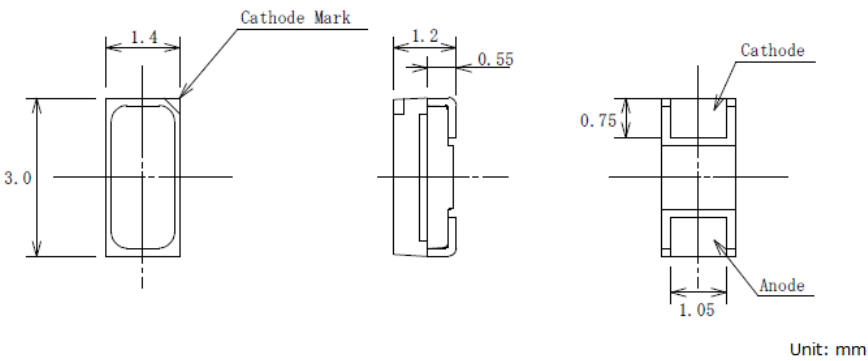


L×W×H: 1.6×0.8×1.5 (Dome-shaped)

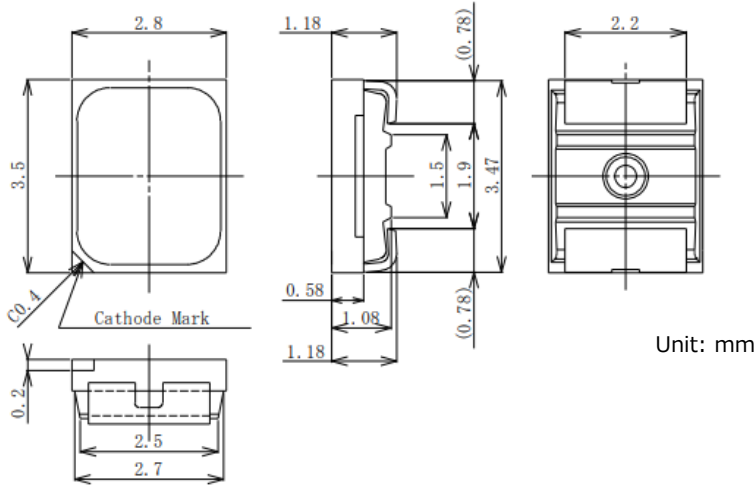


The physical dimensions listed below are typical examples.
For the physical dimensions of each product, please refer to the corresponding data sheet.

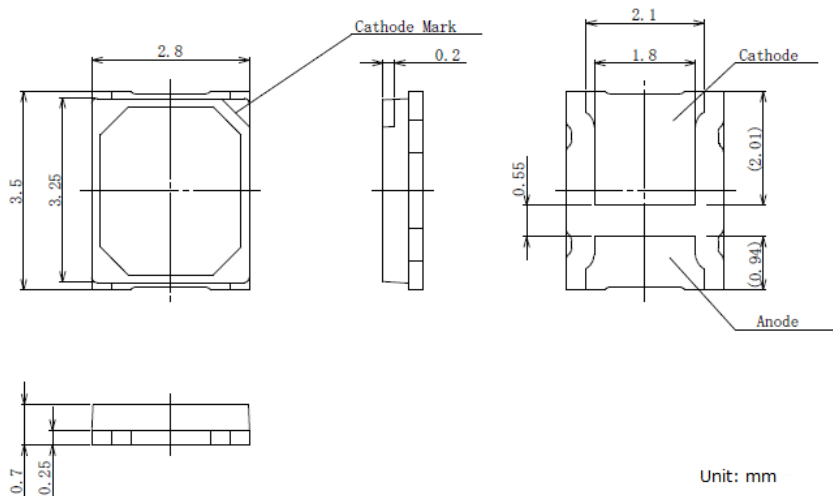
L×W×H: 3.0×1.4×1.2



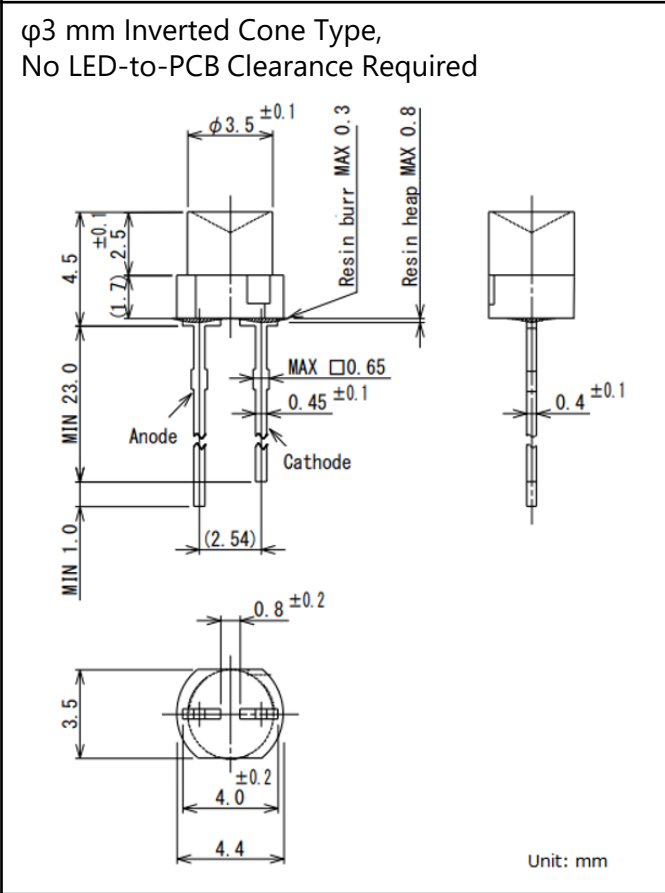
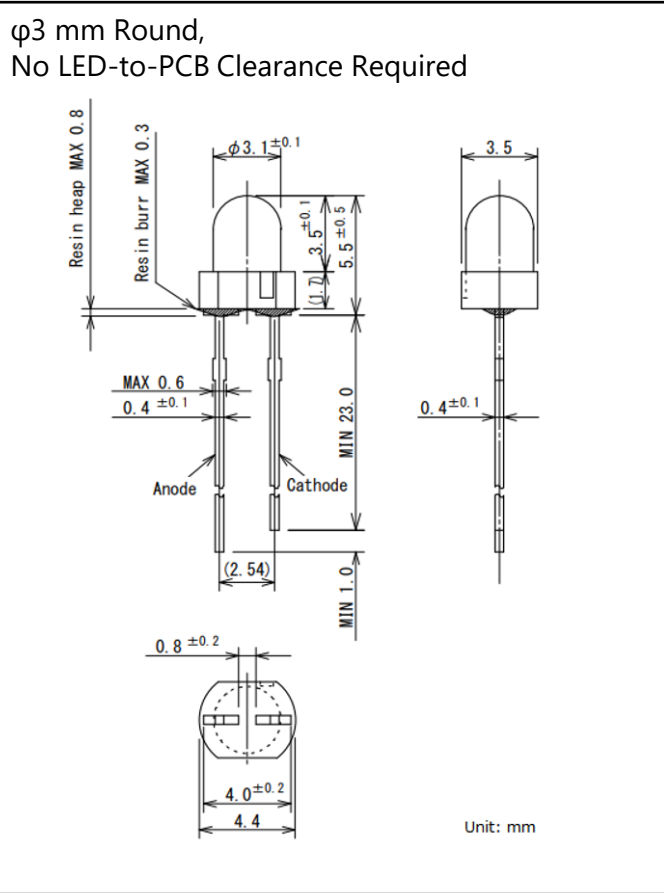
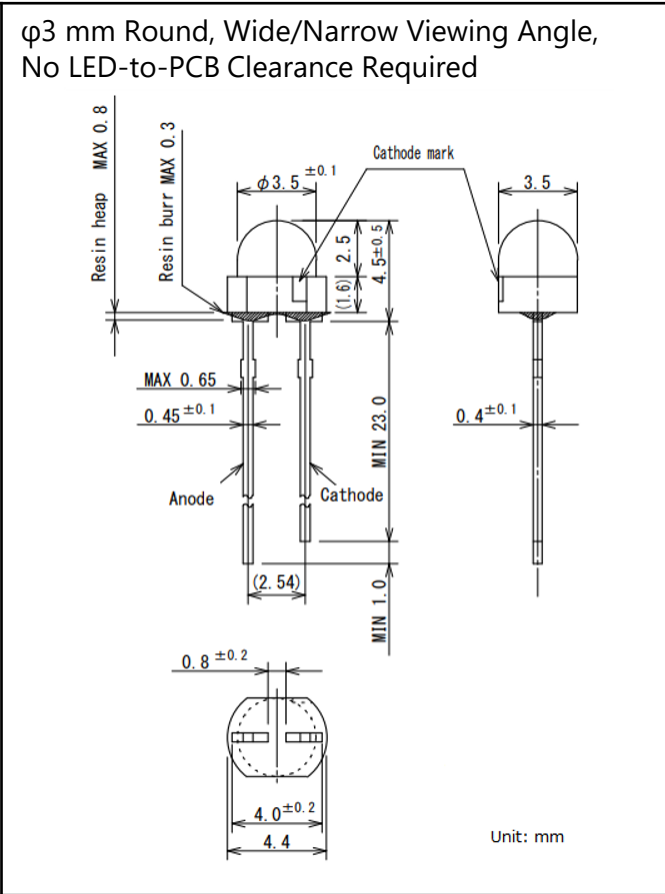
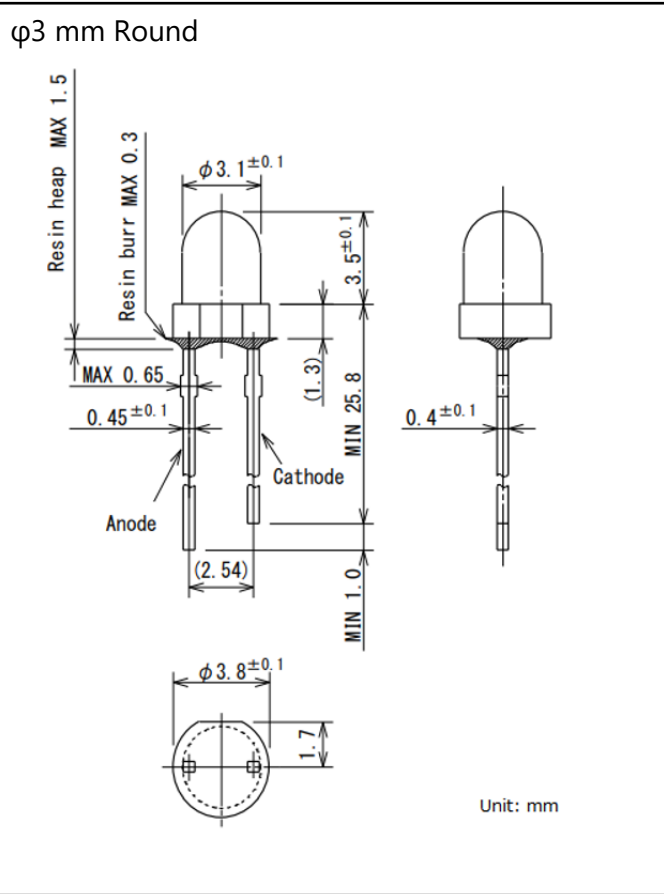
L×W×H: 3.5×2.8×1.2



L×W×H: 2.8×3.5×0.7



The physical dimensions listed below are typical examples.
For the physical dimensions of each product, please refer to the corresponding data sheet.



The physical dimensions listed below are typical examples.
For the physical dimensions of each product, please refer to the corresponding data sheet.

φ5 mm Round, Wide Viewing Angle Unit: mm	

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