



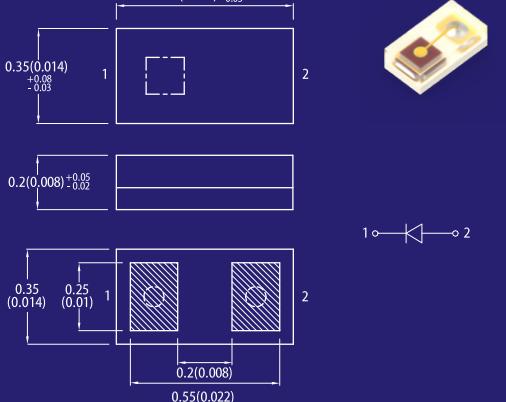
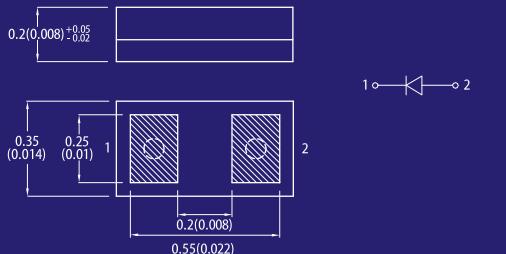
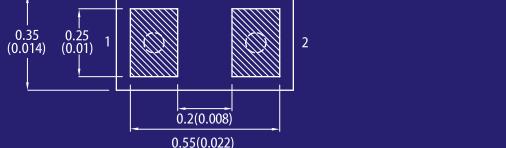
Kingbright

LUMINARY SOLUTIONS

LED Guide for AI Applications

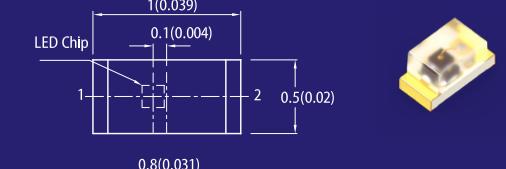
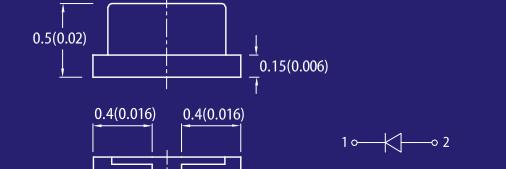
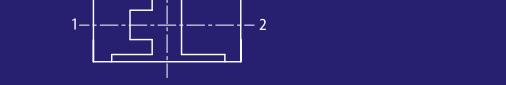
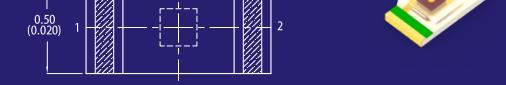
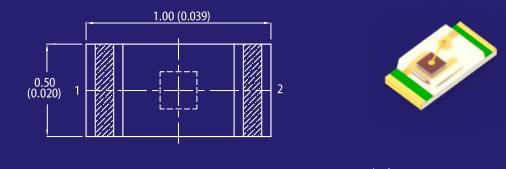
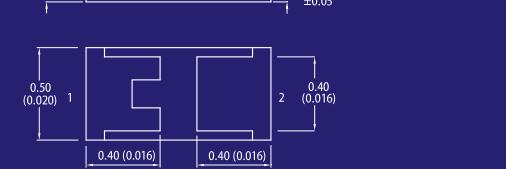
0201 SMD LEDs

- Industry's smallest SMD LED – 0201 footprint
- 0.65 x 0.35 x 0.20mm (LxWxH)
- Highly compatible with automatic placement equipment

Part Number	Color	Wavelength/ X-Y Coordinates	Iv (mcd)		IF	Viewing Angle	Dimensions
			Min.	Typ.			
APG0201VBC/A-5MAV	■	468nm	30	60	5mA	140°	
APG0201VWF-A1-5MAV	■	X=0.31, Y=0.31	180	320	5mA	140°	
APG0201ZGC-5MAV	■	525nm	180	280	5mA	140°	
APG0201CGC-TT	■	571nm	6	15	10mA	140°	
APG0201SEC-E-TT	■	624nm	15	40	10mA	140°	
APG0201SEC-TT	■	605nm	20	50	10mA	140°	
APG0201SURC-TT	■	631nm	10	35	10mA	140°	
APG0201SYC-TT	■	589nm	10	30	10mA	140°	

0402 SMD LEDs

- Industry standard 0402 SMD LED packages
- 0402 with 0.5mm thickness sorted at 2mA
- 2nd Gen 0402 with 0.2mm thickness sorted at 5mA
- Low power consumption with exceptional outputs

Part Number	Color	Wavelength/ X-Y Coordinates	Iv (mcd)		IF	Viewing Angle	Dimensions
			Min.	Typ.			
APHHS1005LCGCK	■	570nm	1.2	3.5	2mA	120°	
APHHS1005LQBC/D-V	■	465nm	6	15	2mA	140°	
APHHS1005LSECK/J3-PF	■	625nm	15	35	2mA	120°	
APHHS1005LSECK/J4-PF	■	605nm	20	40	2mA	120°	
APHHS1005LQWF/D-V	■	X=0.31, Y=0.31	15	30	2mA	160°	
APHHS1005LSYCK/J3-PF	■	590nm	10	20	2mA	120°	
APHHS1005LZGCK-V	■	525nm	80	180	2mA	140°	
APG1005VBC-A1-5MAV	■	468nm	20	60	5mA	140°	
APG1005VWF-A1-5MAV	■	X=0.31, Y=0.31	180	310	5mA	160°	
APG1005ZGC-5MAV	■	525nm	120	280	5mA	140°	

0603 SMD LEDs

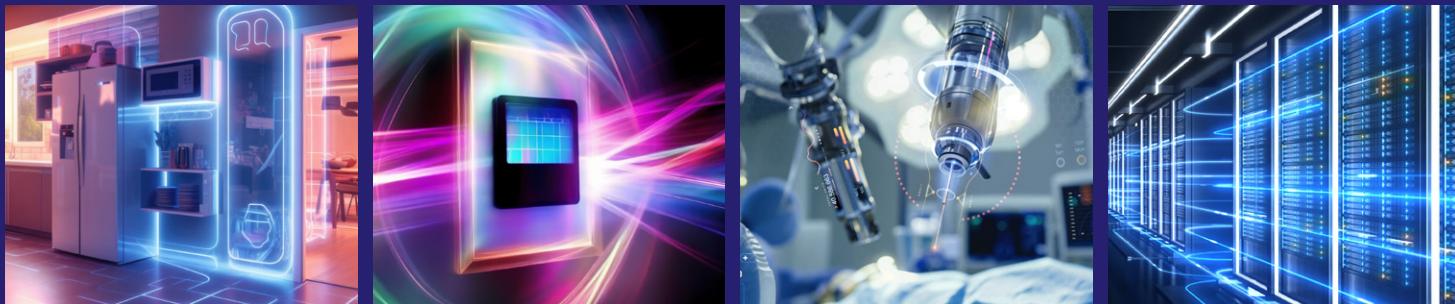
- Industry standard 0603 SMD LED packages
- Top emitting, PLCC and dome lens options
- Dome lens features up to 3X more intensity
- 0603 top emitting with 0.75mm thickness
- 0603 dome lens with 0.95mm thickness
- 0603 PLCC with 0.55mm thickness
- Sorted at 2mA with low VF and high intensity output
- Viewing angle range from 60° to 120°

Part Number	Color	Wavelength	I _v (mcd)		I _F	Viewing Angle	Dimensions
			Min.	Typ.			
APT1608LSECK/J3-PRV	■	625nm	20	40	2mA	120°	
APT1608LSECK/J4-PRV	■	605nm	30	50	2mA	120°	
APT1608LSYCK/J3-PRV	■	590nm	15	25	2mA	120°	
APT1608LVBC/D	■	470nm	15	24	2mA	130°	
APT1608LZGCK	■	525nm	50	100	2mA	130°	
APTD1608LSECK/J3-PF	■	625nm	50	120	2mA	60°	
APTD1608LSECK/J4-PF	■	605nm	80	150	2mA	60°	
APTD1608LSYCK/J3-PF	■	590nm	30	55	2mA	60°	
APTD1608LVBC/D	■	470nm	30	65	2mA	40°	
APTD1608LZGCK	■	525nm	250	420	2mA	60°	
AA1608LQBS/D-295V	■	465nm	15	25	2mA	120°	
AA1608LZGSK-295V	■	525nm	80	140	2mA	120°	
AA1608LVBS/A-295V	■	468nm	20	35	2mA	120°	
AA1608LCGSK	■	570nm	2	6	2mA	120°	
AA1608LSESK	■	605nm	6	15	2mA	120°	
AA1608LSYSK	■	590nm	6	12	2mA	120°	
AA1608LSURSK	■	630nm	6	12	2mA	120°	

Right Angle single color SMD LEDs

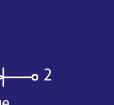
- Right angle dome lens SMD LED
- Extreme small viewing angle of 10°
- 3.0 x 2.0 x 2.8 mm (LxWxH)
- Tinned pads for improved solderability

Part Number	Color	Wavelength	I _v (mcd)		I _F	Viewing Angle	Dimensions
			Min.	Typ.			
APDA3020LSECK/J3-PF	■	625nm	250	500	2mA	10°	
APDA3020LSECK/J4-PF	■	605nm	550	1000	2mA	10°	
APDA3020LSYCK/J3-PF	■	590nm	180	500	2mA	10°	
APDA3020LVBC/D	■	470nm	80	150	2mA	10°	
APDA3020LZGCK	■	525nm	700	1500	2mA	10°	

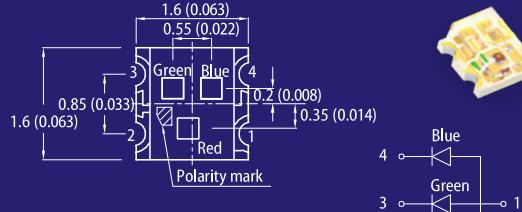
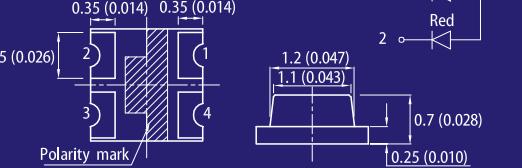
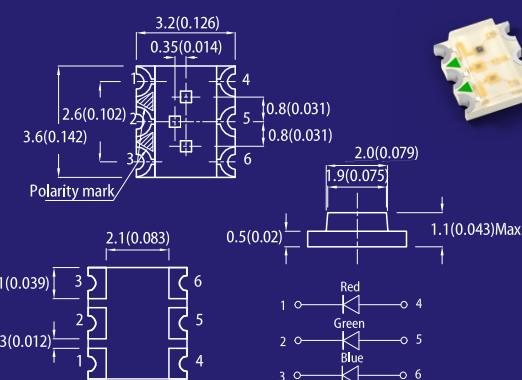
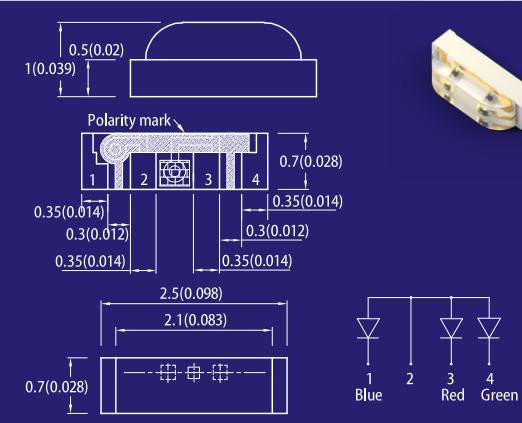
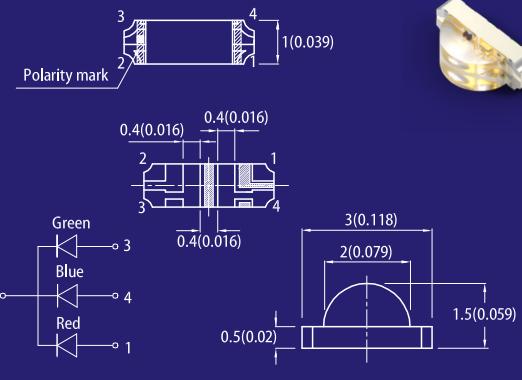


Full Color SMD LEDs

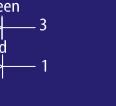
- Enhanced RGB SMD LEDs
- Sorted at 2mA with low VF
- Packages with each color can be controlled separately
- VF max at 3.1V for green, blue and 2.1V for red and yellow colors
- Features in various industry standard packages - PLCC-4, top emitting and right angle packages in various sizes

Part Number	Color	Wavelength	I _v (mcd)		I _F	Viewing Angle	Dimensions
			Min.	Typ.			
APHF1608LSEEQBDZGKC	■	621nm	4	15	2mA	140°	
	■	465nm	4	10			
	■	525nm	5	90			

Full Color SMD LEDs

Part Number	Color	Wavelength	I _v (mcd)		I _F	Viewing Angle	Dimensions	
			Min.	Typ.				
APTF1616LSEEZGKQBKC	■	621nm	6	15	2mA	130°		
	■	525nm	30	80				
	■	465nm	6	14				
APTF1616LSEKJ3ZGKQBC	■	625nm	20	40	2mA	130°		
	■	525nm	30	80				
	■	465nm	6	14				
APF3236LSEEZGKQBKC	■	621nm	6	15	2mA	150°		
	■	525nm	20	60				
	■	465nm	4	10				
APFA2507LQBDSEEZGKC	■	465nm	4	10	2mA	130°		
	■	621nm	6	10				
	■	525nm	50	90				
APFA3010LSEKJ3ZGKQBC	■	625nm	20	40	2mA	150°		
	■	525nm	20	60				
	■	465nm	4	10				

Full Color SMD LEDs

Part Number	Color	Wavelength	Iv (mcd)		I F	Viewing Angle	Dimensions
			Min.	Typ.			
AAA3528LSEEZGKQBKS	■	621nm	10	20	2mA	120°	
	■	525nm	80	180			
	■	465nm	12	30			
AAA3528LSEKJ3ZGKQBKS	■	625nm	30	60	2mA	120°	
	■	525nm	80	180			
	■	465nm	12	30			
AAAF3529LSEEZGKQBKS	■	621nm	10	20	2mA	130°	
	■	525nm	80	180			
	■	465nm	12	30			
AAAF3529LSEKJ3ZGKQBS	■	625nm	30	60	2mA	130°	
	■	525nm	80	180			
	■	465nm	12	30			



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