

Kingbright

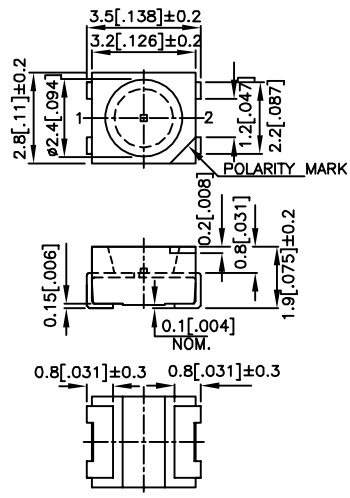
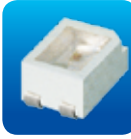
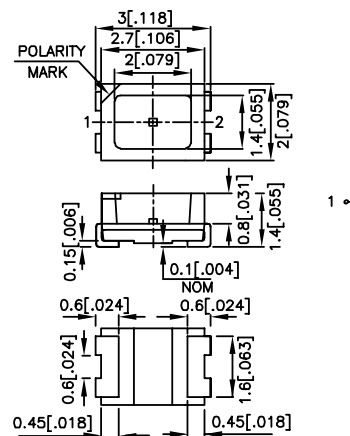
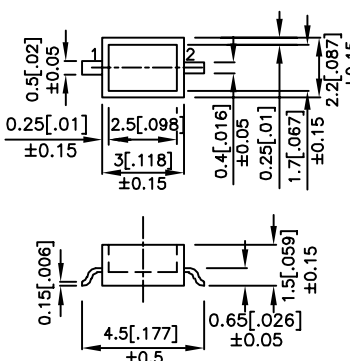
Optoelectronic Components



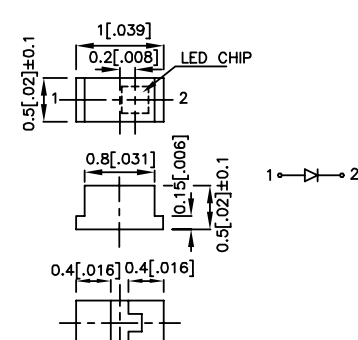
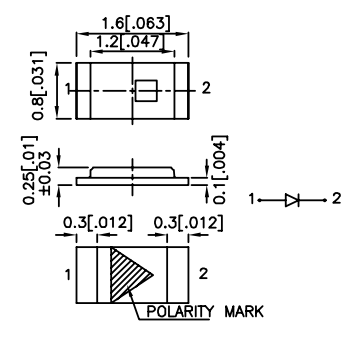
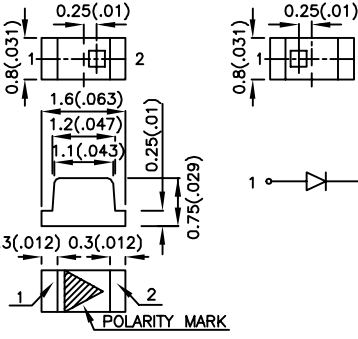
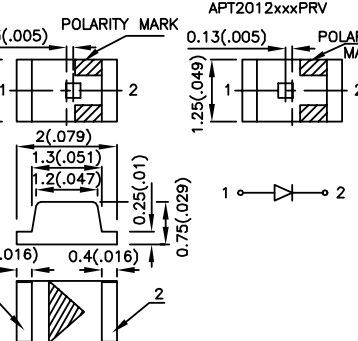
SMD LED

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TOP-EMITTING PLCC SMD LED

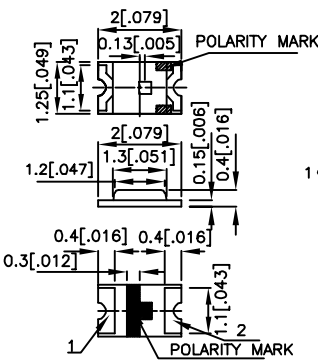
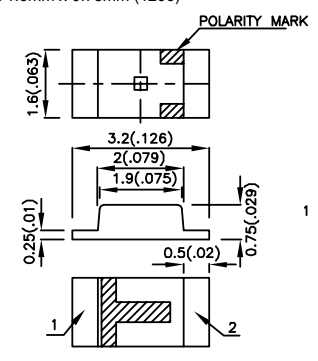
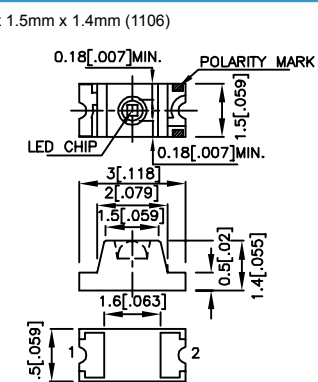
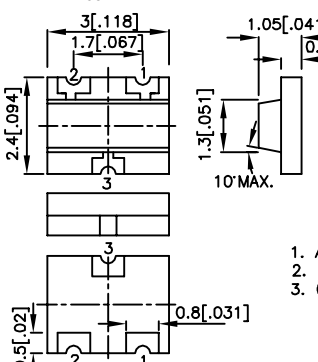
PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
AA3528AEC	GaAsP/GaP	625	water clear	7	30	120°	3.5mm x 2.8mm   Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
AA3528ASRC-RV	GaAlAs	640	water clear	50	150	120°	
AA3528ASURCK	AlGaInP	630	water clear	70	250	120°	
AA3528ASECK	AlGaInP	601	water clear	70	300	120°	
AA3528AYC	GaAsP/GaP	588	water clear	4	15	120°	
AA3528ASYCK	AlGaInP	590	water clear	50	180	120°	
AA3528ASGC	GaP	568	water clear	10	25	120°	
AA3528AMGC	AlGaInP	570	water clear	70	150	120°	
AA3528ACGCK	AlGaInP	570	water clear	18	60	120°	
AA3528AZGC	InGaIn	525	water clear	380	600	120°	
AA3528AVGC/A	InGaIn	525	water clear	110	220	120°	
AA3528AVGC/Z-R	InGaIn	535	water clear	480	950	120°	
AA3528AQBC/D	AlGaInN	470	water clear	70	200	120°	
AA3528APBC/A	InGaIn	470	water clear	18	60	120°	
AA3528APBS/Z-R	InGaIn	465	water clear	180	350	120°	3.0mm x 2.0mm (1108)   Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
AA3020AEC	GaAsP/GaP	625	water clear	7	20	90°	
AA3020ASRC-RV	GaAlAs	640	water clear	36	120	90°	
AA3020ASURCK	AlGaInP	630	water clear	70	200	90°	
AA3020ASECK	AlGaInP	601	water clear	70	250	90°	
AA3020AYC	GaAsP/GaP	588	water clear	4	15	90°	
AA3020ASYCK	AlGaInP	590	water clear	50	180	90°	
AA3020ASGC	GaP	568	water clear	7	30	90°	
AA3020AMGC	AlGaInP	570	water clear	36	80	90°	
AA3020ACGCK	AlGaInP	570	water clear	18	60	90°	
AA3020AZGC	InGaIn	525	water clear	180	500	90°	
AA3020AVGC/A	InGaIn	525	water clear	70	150	90°	
AA3020AVGC/Z-R	InGaIn	535	water clear	650	1000	90°	
AA3020AQBC/D	AlGaInN	470	water clear	70	160	90°	
AA3020APBC/A	InGaIn	470	water clear	18	60	90°	
AA3020APBC/Z-R	InGaIn	465	water clear	110	280	120°	3.0mm x 2.2mm   Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
AA3022EC-4.5SF	GaAsP/GaP	625	water clear	7	30	90°	
AA3022SRC-4.5SF	GaAlAs	640	water clear	36	150	90°	
AA3022YC-4.5SF	GaAsP/GaP	588	water clear	4	10	90°	
AA3022SGC-4.5SF	GaP	568	water clear	7	20	90°	

TOP-EMITTING CHIP SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APHHS1005SURCK	AlGaInP	630	water clear	70	220	120°	1.0mm x 0.5mm x 0.5mm (0402)   APHHS1005 Units : mm(inch) Tolerance : $\pm 0.1(0.004)$
APHHS1005SECK	AlGaInP	601	water clear	70	240	120°	
APHHS1005SYCK	AlGaInP	590	water clear	50	150	120°	
APHHS1005CGCK	AlGaInP	570	water clear	10	40	120°	
APHHS1005VGC/A	InGaN	525	water clear	50	180	120°	
APHHS1005PBC/A	InGaN	470	water clear	18	60	120°	
APG1608SURKC/T	AlGaInP	630	water clear	180	320	120°	1.6mm x 0.8mm x 0.25mm (0603 Ultra Thin)   APG1608 Units : mm(inch) Tolerance : $\pm 0.1(0.004)$
APG1608SEKC/T	AlGaInP	601	water clear	110	200	120°	
APG1608SYKC/T	AlGaInP	590	water clear	70	100	120°	
APG1608CGKC/T	AlGaInP	570	water clear	36	60	120°	
APG1608ZGC	InGaN	525	water clear	280	420	120°	
APG1608VGC/A	InGaN	525	water clear	110	200	120°	
APG1608QBC/D	AlGaInN	470	water clear	50	70	120°	1.6mm x 0.8mm x 0.75mm (0603)   APT1608xxxPRV APT1608 Units : mm(inch) Tolerance : $\pm 0.1(0.004)$
APT1608EC	GaAsP/GaP	625	water clear	4	12	120°	
APT1608SRCPRV	GaAlAs	640	water clear	36	100	120°	
APT1608SURCK	AlGaInP	630	water clear	70	220	120°	
APT1608SECK	AlGaInP	601	water clear	70	240	120°	
APT1608YC	GaAsP/GaP	588	water clear	2.6	8	120°	
APT1608SYCK	AlGaInP	590	water clear	50	150	120°	
APT1608SGC	GaP	568	water clear	4	15	120°	
APT1608MGC	AlGaInP	570	water clear	18	70	120°	
APT1608CGCK	AlGaInP	570	water clear	10	40	120°	
APT1608ZGC	InGaN	525	water clear	110	300	120°	
APT1608VGC/A	InGaN	525	water clear	50	180	120°	
APT1608VGC/Z-PRV	InGaN	535	water clear	180	400	120°	
APT1608QBC/D	AlGaInN	470	water clear	50	100	120°	
APT1608PBC/A	InGaN	470	water clear	18	60	120°	2.0mm x 1.25mm x 0.75mm (0805)   APT2012xxxPRV APT2012 Units : mm(inch) Tolerance : $\pm 0.1(0.004)$
APT1608PBC/Z-PRV-SI	InGaN	465	water clear	70	180	120°	
APT1608MBC	GaN	466	water clear	4	10	120°	
APT2012EC	GaAsP/GaP	625	water clear	4	12	120°	
APT2012SRCPRV	GaAlAs	640	water clear	36	100	120°	
APT2012SURCK	AlGaInP	630	water clear	70	220	120°	
APT2012SECK	AlGaInP	601	water clear	70	240	120°	
APT2012YC	GaAsP/GaP	588	water clear	2.6	8	120°	
APT2012SYCK	AlGaInP	590	water clear	50	150	120°	
APT2012SGC	GaP	568	water clear	4	15	120°	
APT2012MGC	AlGaInP	570	water clear	18	70	120°	
APT2012CGCK	AlGaInP	570	water clear	10	40	120°	
APT2012ZGC	InGaN	525	water clear	110	300	120°	
APT2012VGC/A	InGaN	525	water clear	50	180	120°	
APT2012VGC/Z-PRV	InGaN	535	water clear	180	400	120°	
APT2012QBC/D	AlGaInN	470	water clear	50	100	120°	
APT2012PBC/A	InGaN	470	water clear	18	60	120°	
APT2012PBC/Z-PRV-SI	InGaN	465	water clear	70	180	120°	
APT2012MBC	GaN	466	water clear	4	10	120°	

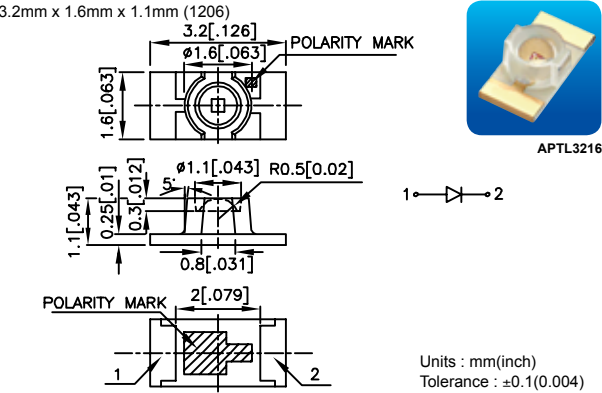
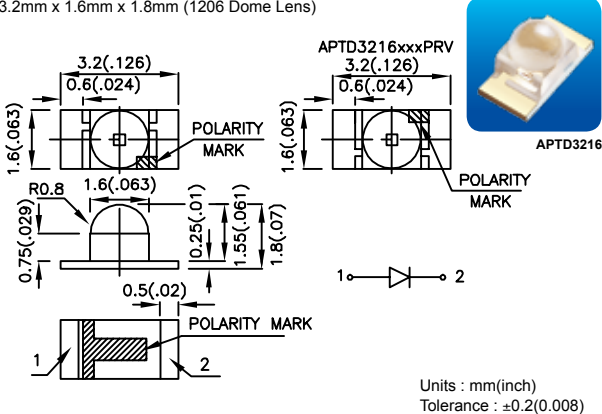
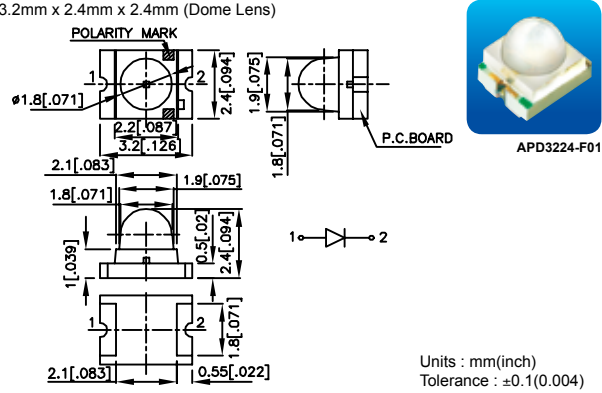
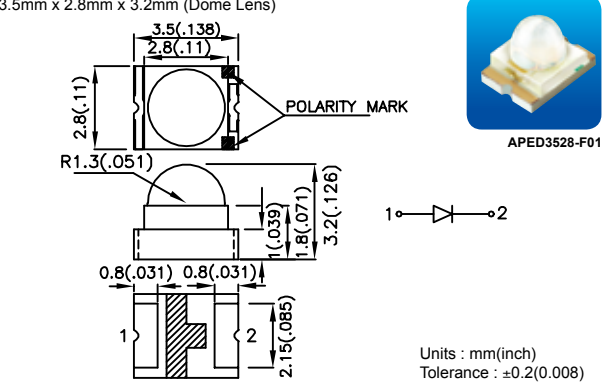
NOTE: 1.AP series custom-made is available upon request.

TOP-EMITTING CHIP SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APHCM2012SURCK-F01	AlGaInP	630	water clear	70	220	110°	2.0mm x 1.25mm x 0.4mm (0805 Super Thin)   APHCM2012-F01 Units : mm(inch) Tolerance : $\pm 0.1(0.004)$
APHCM2012SECK-F01	AlGaInP	601	water clear	70	240	110°	
APHCM2012SYCK-F01	AlGaInP	590	water clear	50	150	110°	
APHCM2012CGCK-F01	AlGaInP	570	water clear	10	40	110°	
APHCM2012ZGC-F01	InGaN	525	water clear	110	300	110°	
APHCM2012VGC/A-F01	InGaN	525	water clear	50	180	110°	
APHCM2012QBC/D-F01	AlGaInN	470	water clear	50	100	110°	
APHCM2012PBC/A-F01	InGaN	470	water clear	18	60	110°	
APT3216EC	GaAsP/GaP	625	water clear	4	12	120°	3.2mm x 1.6mm x 0.75mm (1206)   APT3216 Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
APT3216SRCPRV	GaAlAs	640	water clear	36	80	120°	
APT3216SURCK	AlGaInP	630	water clear	70	220	120°	
APT3216SECK	AlGaInP	601	water clear	70	240	120°	
APT3216YC	GaAsP/GaP	588	water clear	2.6	8	120°	
APT3216SYCK	AlGaInP	590	water clear	50	150	120°	
APT3216SGC	GaP	568	water clear	4	15	120°	
APT3216MGC	AlGaInP	570	water clear	18	70	120°	
APT3216CGCK	AlGaInP	570	water clear	10	40	120°	
APT3216ZGC	InGaN	525	water clear	110	300	120°	
APT3216VGC/A	InGaN	525	water clear	50	180	120°	
APT3216VGC/Z-PRV	InGaN	535	water clear	180	400	120°	
APT3216QBC/D	AlGaInN	470	water clear	50	100	120°	
APT3216PBC/A	InGaN	470	water clear	18	60	120°	
APT3216PBC/Z-PRV-SI	InGaN	465	water clear	70	180	120°	
APT3216MBC	GaN	466	water clear	4	10	120°	
APL3015EC-F01	GaAsP/GaP	625	water clear	4	20	70°	3.0mm x 1.5mm x 1.4mm (1106)   APL3015-F01 Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
APL3015SRCPRV-F01	GaAlAs	640	water clear	50	150	70°	
APL3015SURCK-F01	AlGaInP	630	water clear	280	500	70°	
APL3015SECK-F01	AlGaInP	601	water clear	280	550	70°	
APL3015SYCK-F01	AlGaInP	590	water clear	110	300	70°	
APL3015SGC-F01	GaP	568	water clear	4	20	70°	
APL3015MGC-F01	AlGaInP	570	water clear	70	140	70°	
APL3015CGCK-F01	AlGaInP	570	water clear	36	90	70°	
APL3015ZGC-F01	InGaN	525	water clear	380	850	70°	
APL3015VGC/A-F01	InGaN	525	water clear	110	300	70°	
APL3015VGC/Z-PRV	InGaN	535	water clear	1200	1800	70°	
APL3015QBC/D-F01	AlGaInN	470	water clear	70	180	70°	
APL3015PBC/A-F01	InGaN	470	water clear	50	120	70°	
APL3015PBC/Z-PRV-SI	InGaN	465	water clear	480	850	70°	
AP23SURCK/F-F01	AlGaInP	630	water clear	70	220	120°	3.0mm x 2.4mm x 1.05mm   AP23/F-F01 Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
AP23SECK/F-F01	AlGaInP	601	water clear	70	240	120°	
AP23SYCK/F-F01	AlGaInP	590	water clear	50	150	120°	
AP23SGC/F-F01	GaP	568	water clear	7	20	120°	
AP23CGCK/F-F01	AlGaInP	570	water clear	18	60	120°	
AP23ZGC/F-F01	InGaN	525	water clear	110	380	120°	
AP23VGC/A/F-F01	InGaN	525	water clear	50	180	120°	
AP23PBC/A/F-F01	InGaN	470	water clear	18	50	120°	
AP23QBC/D/F-F01	AlGaInN	470	water clear	50	100	120°	
							1. ANODE 2. N.C 3. CATHODE

NOTE: 1.AP series custom-made is available upon request.

TOP-EMITTING CHIP SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE	DIMENSION
				MIN.	TYP.		
APTL3216SURCK	AlGaInP	630	water clear	280	550	70°	3.2mm x 1.6mm x 1.1mm (1206) 
APTL3216SECK	AlGaInP	601	water clear	380	550	70°	
APTL3216SYCK	AlGaInP	590	water clear	110	350	70°	
APTL3216CGCK	AlGaInP	570	water clear	70	200	70°	
APTL3216ZGC	InGaIn	525	water clear	650	1100	70°	
APTL3216VGC/A	InGaIn	525	water clear	280	450	70°	
APTL3216QBC/D	AlGaInN	470	water clear	180	340	70°	
APTL3216PBC/A	InGaIn	470	water clear	50	200	70°	
APTD3216EC	GaAsP/GaP	625	water clear	10	50	40°	3.2mm x 1.6mm x 1.8mm (1206 Dome Lens) 
APTD3216SRCPRV	GaAlAs	640	water clear	180	400	50°	
APTD3216SURCK	AlGaInP	630	water clear	480	1000	50°	
APTD3216SECK	AlGaInP	601	water clear	480	1300	50°	
APTD3216YC	GaAsP/GaP	588	water clear	4	30	40°	
APTD3216SYCK	AlGaInP	590	water clear	280	700	50°	
APTD3216SGC	GaP	568	water clear	10	50	40°	
APTD3216MGC	AlGaInP	570	water clear	180	450	50°	
APTD3216CGCK	AlGaInP	570	water clear	110	300	50°	
APTD3216ZGC	InGaIn	525	water clear	380	850	50°	
APTD3216VGC/A	InGaIn	525	water clear	280	800	50°	
APTD3216VGC/Z-PRV	InGaIn	535	water clear	2200	5000	50°	
APTD3216QBC/D	AlGaInN	470	water clear	280	500	40°	
APTD3216PBC/A	InGaIn	470	water clear	110	400	50°	
APTD3216PBC/Z-PRV-SI	InGaIn	465	water clear	480	1000	50°	
APD3224EC-F01	GaAsP/GaP	625	water clear	36	70	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens) 
APD3224SURCK-F01	AlGaInP	630	water clear	480	1000	20°	
APD3224SECK-F01	AlGaInP	601	water clear	650	1300	20°	
APD3224YC-F01	GaAsP/GaP	588	water clear	10	40	20°	
APD3224SYCK-F01	AlGaInP	590	water clear	380	1000	20°	
APD3224SGC-F01	GaP	568	water clear	18	70	20°	
APD3224CGCK-F01	AlGaInP	570	water clear	180	550	20°	
APD3224ZGC-F01	InGaIn	525	water clear	1200	2400	20°	
APD3224VGC/A-F01	InGaIn	525	water clear	480	1000	20°	
APD3224QBC/D-F01	AlGaInN	470	water clear	480	900	20°	3.5mm x 2.8mm x 3.2mm (Dome Lens) 
APED3528SURCK-F01	AlGaInP	630	water clear	380	800	40°	
APED3528SECK-F01	AlGaInP	601	water clear	380	700	40°	
APED3528SYCK-F01	AlGaInP	590	water clear	180	400	40°	
APED3528CGCK-F01	AlGaInP	570	water clear	70	170	40°	
APED3528ZGC-F01	InGaIn	525	water clear	480	1400	40°	
APED3528VGC/A-F01	InGaIn	525	water clear	110	300	40°	
APED3528QBC/D-F01	AlGaInN	470	water clear	280	500	40°	
APED3528PBC/A-F01	InGaIn	470	water clear	50	150	40°	

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TOP-EMITTING CHIP SMD LED

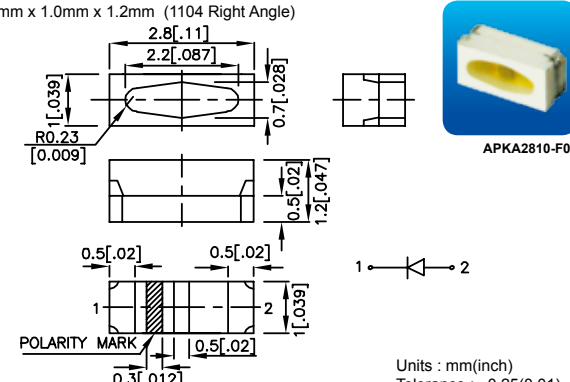
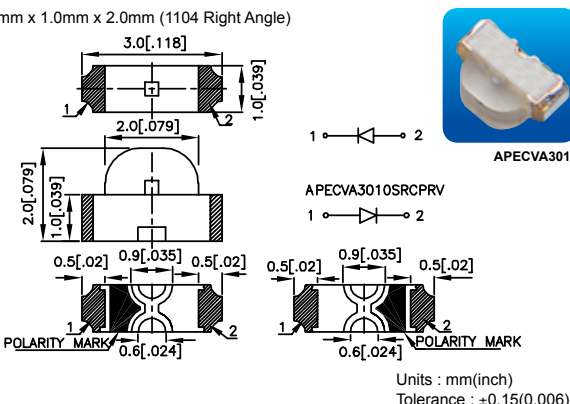
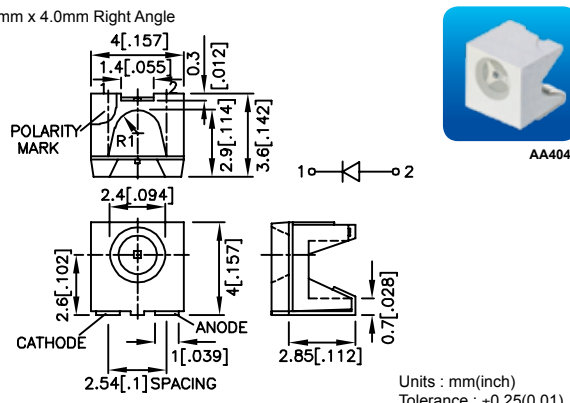
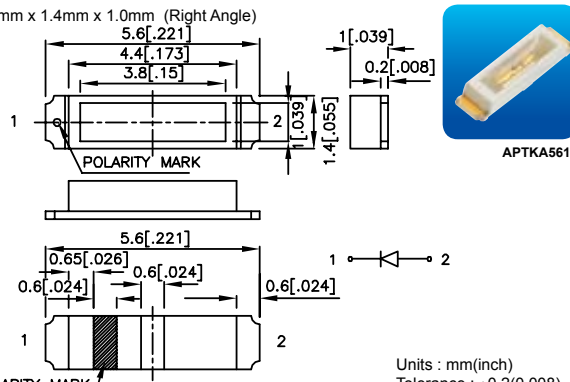
PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APHK1608SURCK	AlGaInP	630	water clear	70	200	90°	1.6mm x 0.8mm x 0.7mm (0603) APHK1608 Units : mm(inch) Tolerance : ±0.1(0.004)
APHK1608SECK	AlGaInP	601	water clear	70	250	90°	
APHK1608SYCK	AlGaInP	590	water clear	50	180	90°	
APHK1608CGCK	AlGaInP	570	water clear	18	60	90°	
APHK1608ZGC	InGaIn	525	water clear	180	500	90°	
APHK1608VGC/A	InGaIn	525	water clear	70	200	90°	
APHK1608QBC/D	AlGaInN	470	water clear	50	120	90°	
APHK1608PBC/A	InGaIn	470	water clear	36	70	90°	
APTK2012SURCK-F01	AlGaInP	630	water clear	70	200	100°	2.0mm x 1.25mm x 0.75mm (0805) APTK2012-F01 Units : mm(inch) Tolerance : ±0.1(0.004)
APTK2012SECK-F01	AlGaInP	601	water clear	70	250	100°	
APTK2012SYCK-F01	AlGaInP	590	water clear	50	180	100°	
APTK2012CGCK-F01	AlGaInP	570	water clear	18	60	100°	
APTK2012ZGC-F01	InGaIn	525	water clear	180	500	100°	
APTK2012VGC/A-F01	InGaIn	525	water clear	70	200	100°	
APTK2012QBC/D-F01	AlGaInN	470	water clear	50	120	100°	
APTK2012PBC/A-F01	InGaIn	470	water clear	36	70	100°	

RIGHT ANGLE SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APA1606SURCK	AlGaInP	630	water clear	110	250	110°	1.6mm x 0.6mm x 1.2mm (0602 Right Angle) APA1606 Units : mm(inch) Tolerance : ±0.1(0.004)
APA1606SECK	AlGaInP	601	water clear	70	250	110°	
APA1606SYCK	AlGaInP	590	water clear	50	150	110°	
APA1606MGC	AlGaInP	570	water clear	36	80	110°	
APA1606CGCK	AlGaInP	570	water clear	18	60	110°	
APA1606ZGC	InGaIn	525	water clear	70	250	110°	
APA1606VGC/A	InGaIn	525	water clear	70	180	110°	
APA1606QBC/D	AlGaInN	470	water clear	36	90	110°	
APA1606PBC/A	InGaIn	470	water clear	18	60	110°	
APA2106SURCK	AlGaInP	630	water clear	110	250	120°	2.1mm x 0.6mm x 1.0mm (0802 Right Angle) APA2106 Units : mm(inch) Tolerance : ±0.1(0.004)
APA2106SECK	AlGaInP	601	water clear	70	250	120°	
APA2106SYCK	AlGaInP	590	water clear	50	150	120°	
APA2106MGC	AlGaInP	570	water clear	36	80	120°	
APA2106CGCK	AlGaInP	570	water clear	18	60	120°	
APA2106ZGC	InGaIn	525	water clear	70	250	120°	
APA2106VGC/A	InGaIn	525	water clear	70	180	120°	
APA2106VGC/Z-PRV	InGaIn	535	water clear	380	800	120°	
APA2106QBC/D	AlGaInN	470	water clear	36	90	120°	
APA2106PBC/A	InGaIn	470	water clear	18	60	120°	
APA2106PBC/Z-PRV-SI	InGaIn	465	water clear	110	230	120°	

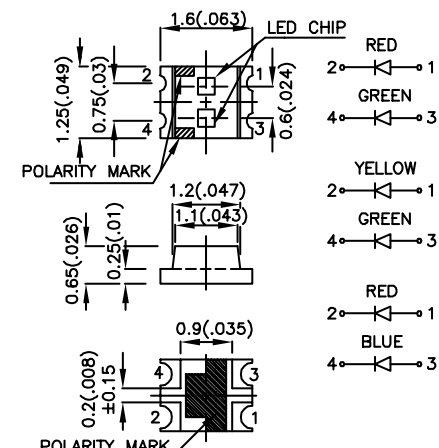
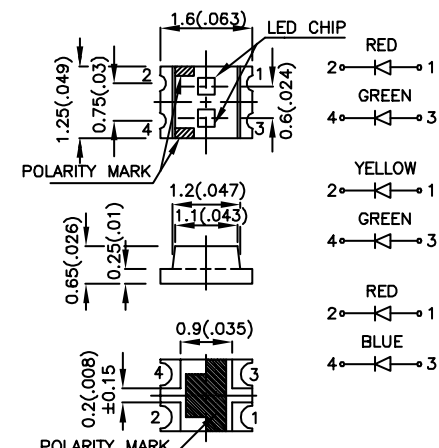
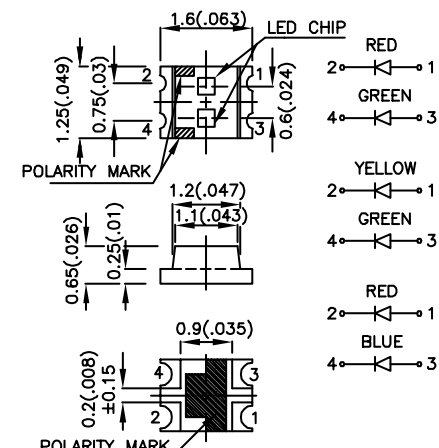
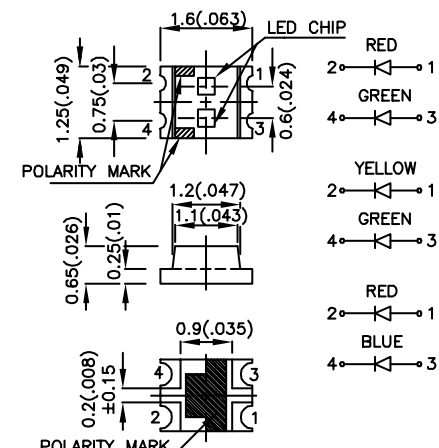
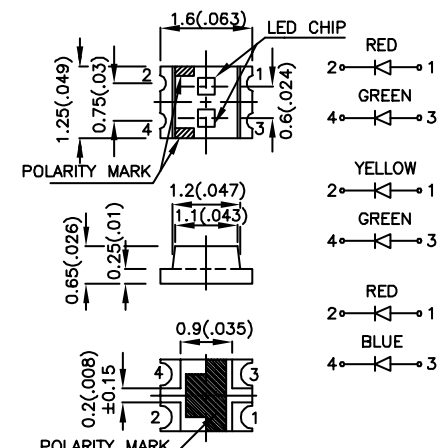
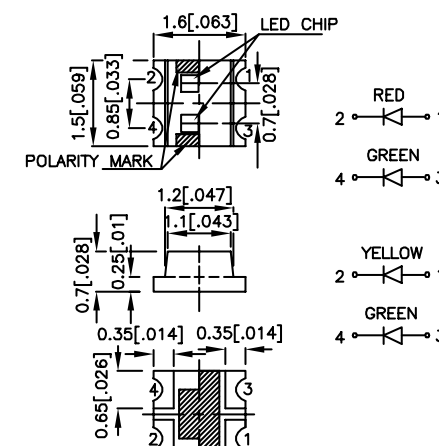
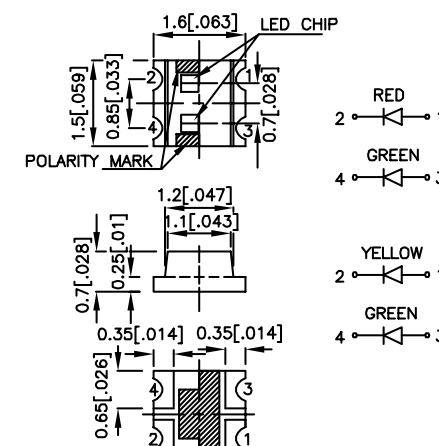
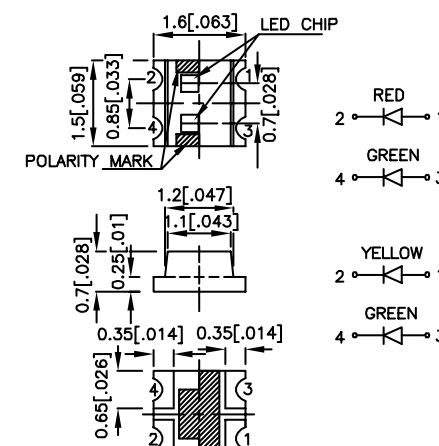
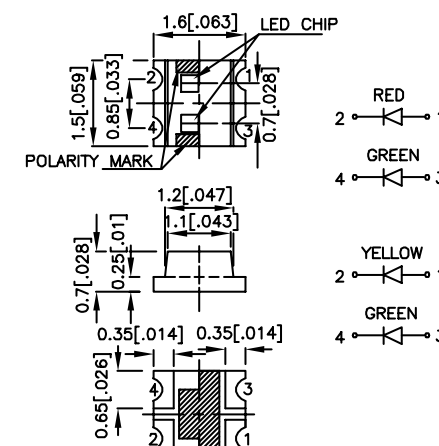
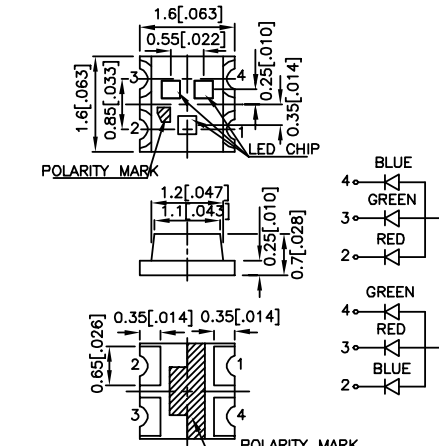
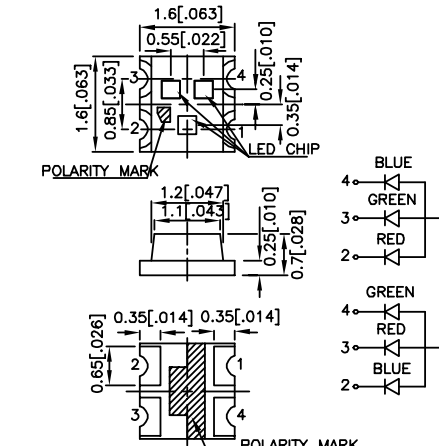
NOTE: 1.AP series custom-made is available upon request.

RIGHT ANGLE SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE	DIMENSION
				MIN.	TYP.		
APKA2810SURCK-F01	AlGaInP	630	water clear	70	250	90°	2.8mm x 1.0mm x 1.2mm (1104 Right Angle)  APKA2810-F01 Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
APKA2810SECK-F01	AlGaInP	601	water clear	70	300	90°	
APKA2810SYCK-F01	AlGaInP	590	water clear	70	180	90°	
APKA2810CGCK-F01	AlGaInP	570	water clear	18	60	90°	
APKA2810ZGC-F01	InGaN	525	water clear	110	300	90°	
APKA2810VGC/A-F01	InGaN	525	water clear	70	200	90°	
APKA2810QBC/D-F01	AlGaInN	470	water clear	50	120	90°	
APKA2810PBC/A-F01	InGaN	470	water clear	36	70	90°	
APECVA3010EC	GaAsP/GaP	625	water clear	4	15	120°	3.0mm x 1.0mm x 2.0mm (1104 Right Angle)  APECVA3010 Units : mm(inch) Tolerance : $\pm 0.15(0.006)$
APECVA3010SRCPRV	GaAlAs	640	water clear	50	100	120°	
APECVA3010SURCK	AlGaInP	630	water clear	110	250	120°	
APECVA3010SECK	AlGaInP	601	water clear	70	250	120°	
APECVA3010YC	GaAsP/GaP	588	water clear	2.6	7	120°	
APECVA3010SYCK	AlGaInP	590	water clear	50	150	120°	
APECVA3010SGC	GaP	568	water clear	4	15	120°	
APECVA3010MGC	AlGaInP	570	water clear	36	80	120°	
APECVA3010CGCK	AlGaInP	570	water clear	18	60	120°	4.0mm x 4.0mm Right Angle  AA4040 Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
AA4040SURCK	AlGaInP	630	water clear	70	250	90°	
AA4040SECK	AlGaInP	601	water clear	70	300	90°	
AA4040SYCK	AlGaInP	590	water clear	50	180	90°	
AA4040SGC	GaP	568	water clear	10	25	90°	
AA4040MGC	AlGaInP	570	water clear	50	100	90°	
AA4040CGCK	AlGaInP	570	water clear	36	70	90°	
AA4040ZGC	InGaN	525	water clear	380	600	90°	
AA4040VGC/A	InGaN	525	water clear	70	200	90°	5.6mm x 1.4mm x 1.0mm (Right Angle)  APTKA5614 Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
AA4040QBC/D	AlGaInN	470	water clear	70	150	90°	
AA4040PBC/A	InGaN	470	water clear	36	120	90°	
AA4040PBC/Z	InGaN	465	water clear	110	280	90°	
APTKA5614SURCK	AlGaInP	630	water clear	70	250	90°	
APTKA5614SEC	AlGaInP	601	water clear	110	300	90°	
APTKA5614SYCK	AlGaInP	590	water clear	70	180	90°	
APTKA5614VGC/A	InGaN	525	water clear	70	200	90°	
APTKA5614PBC/A	InGaN	470	water clear	36	80	90°	

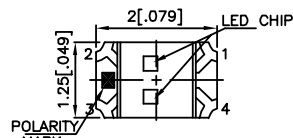
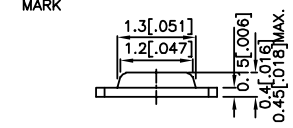
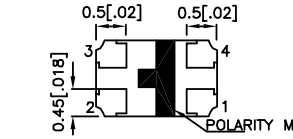
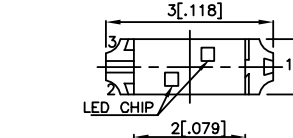
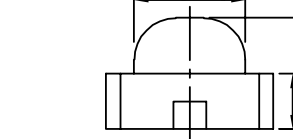
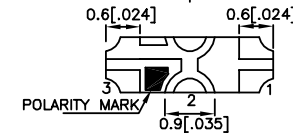
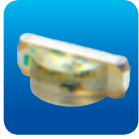
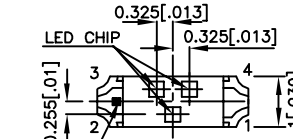
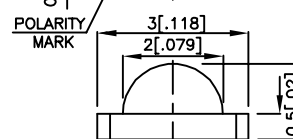
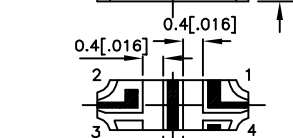
NOTE: 1.AP series custom-made is available upon request.

MULTI-COLOR SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APTB1612ESGC-F01	GaAsP/GaP	625	water clear	4	12	120°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color) 
	GaP	568		4	12		
APTB1612YSGC-F01	GaAsP/GaP	588	water clear	2.6	8	120°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color) 
	GaP	568		4	12		
APTB1612SURKCGKC-F01	AlGaInP	630	water clear	70	220	120°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color) 
	AlGaInP	570		18	50		
APTB1612SURQBDC-F01	AlGaInP	630	water clear	70	220	120°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color) 
	AlGaInN	470		50	90		
APTB1612SYKCGKC-F01	AlGaInP	590	water clear	50	150	120°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color) 
	AlGaInP	570		18	50		
							Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
APTB1615ESGC-F01	GaAsP/GaP	625	water clear	4	12	120°	1.6mm x 1.5mm x 0.7mm (0606 Bi-Color) 
	GaP	568		4	12		
APTB1615YSGC-F01	GaAsP/GaP	588	water clear	2.6	8	120°	1.6mm x 1.5mm x 0.7mm (0606 Bi-Color) 
	GaP	568		4	12		
APTB1615SURKCGKC-F01	AlGaInP	630	water clear	70	220	120°	1.6mm x 1.5mm x 0.7mm (0606 Bi-Color) 
	AlGaInP	570		18	50		
APTB1615SYKCGKC-F01	AlGaInP	590	water clear	50	150	120°	1.6mm x 1.5mm x 0.7mm (0606 Bi-Color) 
	AlGaInP	570		18	50		
							Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
APTF1616SEEVGAPBAC	AlGaInP	621	water clear	180	400	120°	1.6mm x 1.6mm x 0.7mm (Full Color) 
	InGaIn	525		70	180		
	InGaIn	470		10	40		
APTF1616PBASURKCGKC	InGaIn	470	water clear	10	40	120°	1.6mm x 1.6mm x 0.7mm (Full Color) 
	AlGaInP	630		110	230		
	AlGaInP	570		18	50		
							Units : mm(inch) Tolerance : $\pm 0.2(0.008)$

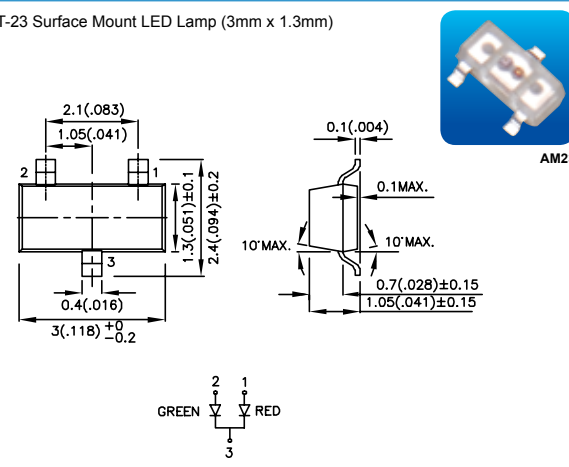
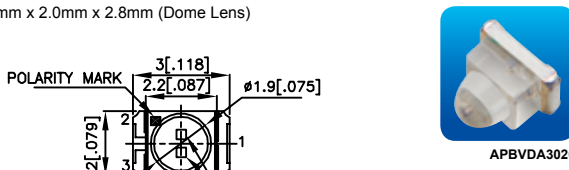
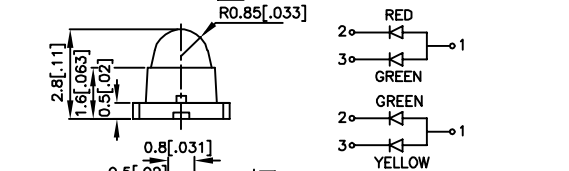
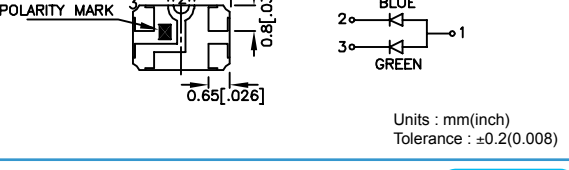
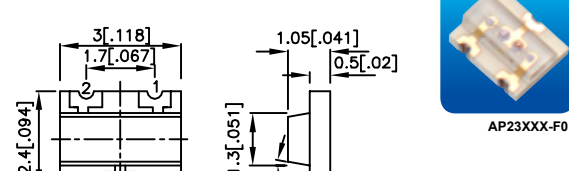
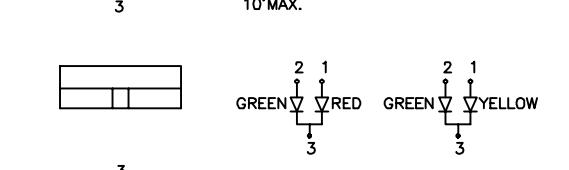
NOTE: 1.AP series custom-made is available upon request.

MULTI-COLOR SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APHBM2012ETSGTC	GaAsP/GaP	625	water clear	4	17	120°	2.0mm x 1.25mm x 0.45mm (0805 Super Thin, Bi-Color)  APHBM2012
	GaP	568		7	20		
APHBM2012SURKCGKC	AlGaInP	630	water clear	70	220	120°	   Units : mm(inch) Tolerance : $\pm 0.1(0.004)$
	AlGaInP	570		36	80		
APHBM2012CGKSEKC	AlGaInP	570	water clear	36	80	120°	
	AlGaInP	601		110	250		
APHBM2012CGKSYKC	AlGaInP	570	water clear	36	80	120°	
	AlGaInP	590		50	150		
APHBM2012PBASURKC	InGaIn	470	water clear	18	50	120°	
	AlGaInP	630		70	220		
APHBM2012PBACGKC	InGaIn	470	water clear	18	50	120°	
	AlGaInP	570		36	80		
APBVA3010ESGC	GaAsP/GaP	625	water clear	7	15	140°	3.0mm x 1.0mm x 2mm (1104 Right Angle, Bi-Color)  APBVA3010
	GaP	568		7	15		
APBVA3010EYC	GaAsP/GaP	625	water clear	7	15	140°	
	GaAsP/GaP	588		2.6	6		
APBVA3010YSGC	GaAsP/GaP	588	water clear	2.6	6	140°	
	GaP	568		7	15		
APBVA3010SURKCGKC	AlGaInP	630	water clear	110	200	140°	   Units : mm(inch) Tolerance : $\pm 0.15(0.006)$
	AlGaInP	570		18	50		
APBVA3010SYKCGKC	AlGaInP	590	water clear	50	150	140°	
	AlGaInP	570		18	50		
APFA3010SURKCGKPBAC	AlGaInP	630	water clear	70	200	120°	3.0mm x 1.0mm x 1.5mm (1104 Right Angle, Full Color)  APFA3010
	AlGaInP	570		18	50		
	InGaIn	470		18	60		
APFA3010SEEVGAPBAC	AlGaInP	621	water clear	110	300	120°	   Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	InGaIn	525		50	200		
	InGaIn	470		18	60		

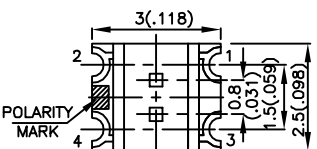
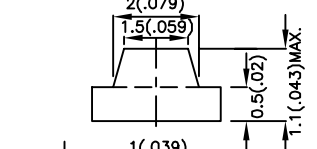
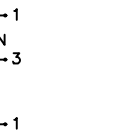
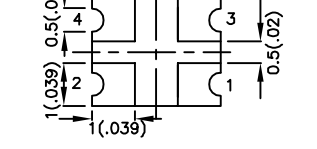
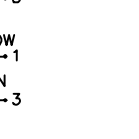
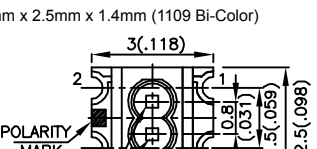
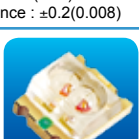
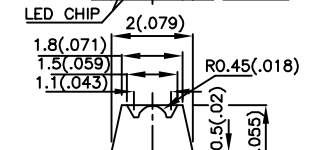
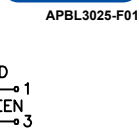
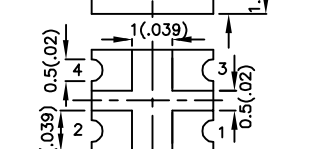
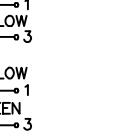
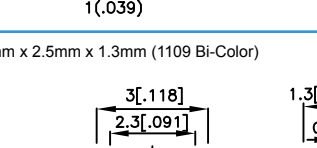
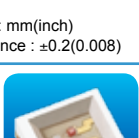
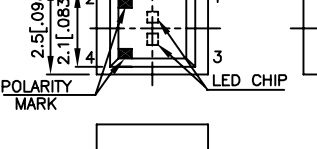
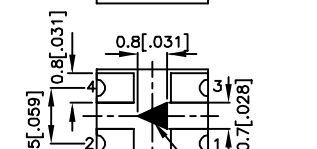
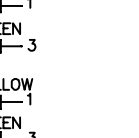
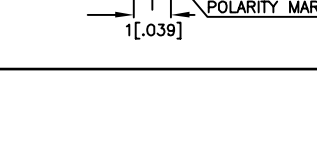
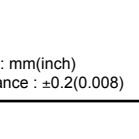
NOTE: 1.AP series custom-made is available upon request.

MULTI-COLOR SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
AM23ESGW	GaAsP/GaP	625	white diffused	4	15	140°	SOT-23 Surface Mount LED Lamp (3mm x 1.3mm)  Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
	GaP	568		4	15		
AM23ESGC	GaAsP/GaP	625	water clear	4	15	140°	SOT-23 Surface Mount LED Lamp (3mm x 1.3mm)  Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
	GaP	568		4	15		
APBVDA3020SURKCGKC	AlGaInP	630	water clear	480	900	15°	3.0mm x 2.0mm x 2.8mm (Dome Lens)  Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	AlGaInP	570		110	300		
APBVDA3020CGKSYKC	AlGaInP	570	water clear	50	200	15°	3.0mm x 2.0mm x 2.8mm (Dome Lens)  Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	AlGaInP	590		480	750		
APBVDA3020PBACGKC	InGaN	470	water clear	110	220	15°	3.0mm x 2.0mm x 2.8mm (Dome Lens)  Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	AlGaInP	570		110	300		
AP23ESGC-F01	GaAsP/GaP	625	water clear	7	20	120°	3.0mm x 2.4mm x 1.05mm  Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	GaP	568		7	20		
AP23YSGC-F01	GaAsP/GaP	588	water clear	2.6	8	120°	3.0mm x 2.4mm x 1.05mm  Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	GaP	568		7	20		

NOTE: 1.AP series custom-made is available upon request.

MULTI-COLOR SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE	DIMENSION
				MIN.	TYP.		
APB3025ESGC-F01	GaAsP/GaP	625	water clear	4	12	120°	3.0mm x 2.5mm x 1.1mm (1109 Bi-Color)   APB3025-F01 2 RED 1 4 GREEN 3
	GaP	568		4	12		
APB3025EYC-F01	GaAsP/GaP	625	water clear	4	12	120°	  APB3025-F01 2 RED 1 4 GREEN 3
	GaAsP/GaP	588		2.6	8		
APB3025YSGC-F01	GaAsP/GaP	588	water clear	2.6	8	120°	  APB3025-F01 2 RED 1 4 YELLOW 3
	GaP	568		4	12		
APB3025SURKCGKC-F01	AlGaInP	630	water clear	70	220	120°	  APB3025-F01 2 RED 1 4 GREEN 3
	AlGaInP	570		18	50		
APBL3025ESGC-F01	GaAsP/GaP	625	water clear	7	20	100°	3.0mm x 2.5mm x 1.4mm (1109 Bi-Color)   APBL3025-F01 2 RED 1 4 GREEN 3
	GaP	568		7	20		
APBL3025EYC-F01	GaAsP/GaP	625	water clear	7	20	100°	  APBL3025-F01 2 RED 1 4 GREEN 3
	GaAsP/GaP	588		4	15		
APBL3025YSGC-F01	GaAsP/GaP	588	water clear	4	15	100°	  APBL3025-F01 2 RED 1 4 YELLOW 3
	GaP	568		7	20		
APBL3025SURKCGK-F01	AlGaInP	630	water clear	180	500	100°	  APBL3025-F01 2 RED 1 4 GREEN 3
	AlGaInP	570		36	120		
APKB3025ESGC-F01	GaAsP/GaP	625	water clear	10	20	120°	3.0mm x 2.5mm x 1.3mm (1109 Bi-Color)   APKB3025-F01 2 RED 1 4 GREEN 3
	GaP	568		10	20		
APKB3025YSGC-F01	GaAsP/GaP	588	water clear	2.6	8	120°	  APKB3025-F01 2 RED 1 4 YELLOW 3
	GaP	568		10	20		

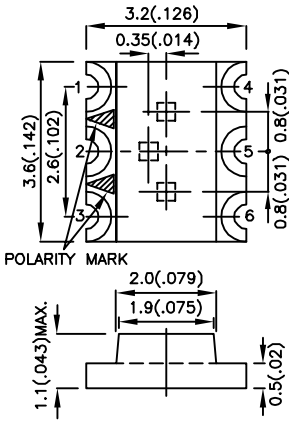
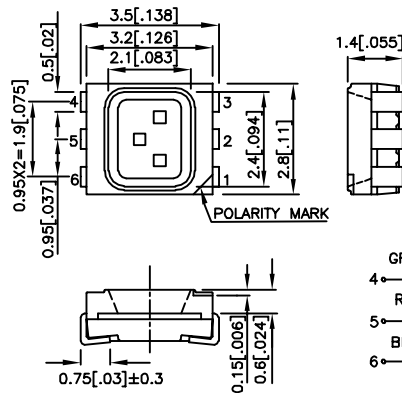
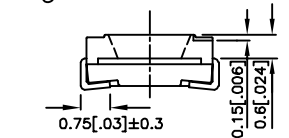
NOTE: 1.AP series custom-made is available upon request.

MULTI-COLOR SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APBA3210ESGC-F01	GaAsP/GaP	625	water clear	4	12	120°	3.2mm x 1.0mm x 1.5mm (1304 Right Angle, Bi-Color)  APBA3210-F01
	GaP	568		4	12		
APBA3210EYC-F01	GaAsP/GaP	625	water clear	4	12	120°	 APBA3210-F01
	GaAsP/GaP	588		2.6	8		
APBA3210YSGC-F01	GaAsP/GaP	588	water clear	2.6	8	120°	 APBA3210-F01
	GaP	568		4	12		
APBA3210SURKCGKC-F01	AlGaInP	630	water clear	110	200	120°	 APBA3210-F01
	AlGaInP	570		18	50		
APBA3210SYKCGKC-F01	AlGaInP	590	water clear	50	150	120°	 APBA3210-F01
	AlGaInP	570		18	50		
APTF3216PBAVGASUK	InGaN	470	water clear	18	60	120°	3.2mm x 1.6mm x 0.75mm (Full Color)  APTF3216
	InGaN	525		50	150		
	AlGaInP	630		70	220		
APBD3224ESGC-F01	GaAsP/GaP	625	water clear	18	60	20°	3.2mm x 2.4mm x 2.4mm (Dome Lens)  APBD3224-F01
	GaP	568		10	40		
APBD3224SURKCGKC-F01	AlGaInP	630	water clear	380	800	20°	 APBD3224-F01
	AlGaInP	570		110	300		
APBD3224SYKCGKC-F01	AlGaInP	590	water clear	110	500	20°	 APBD3224-F01
	AlGaInP	570		110	300		

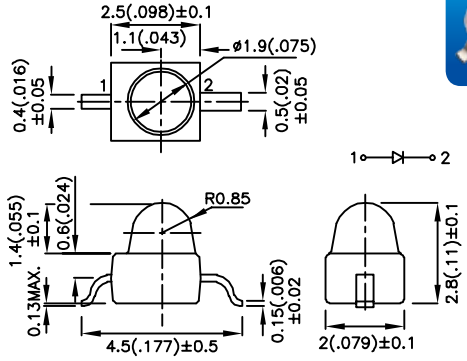
NOTE: 1.AP series custom-made is available upon request.

MULTI-COLOR SMD LED

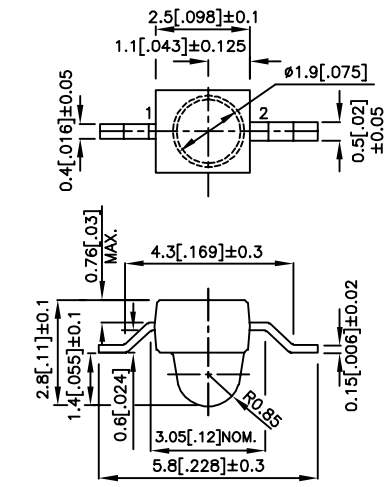
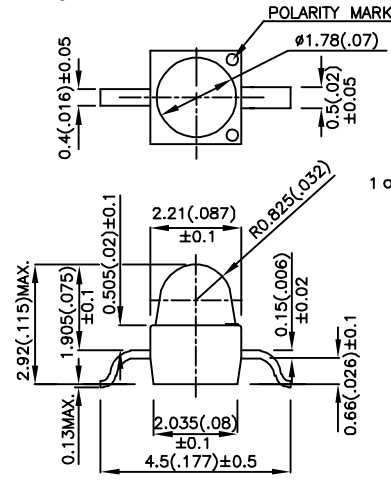
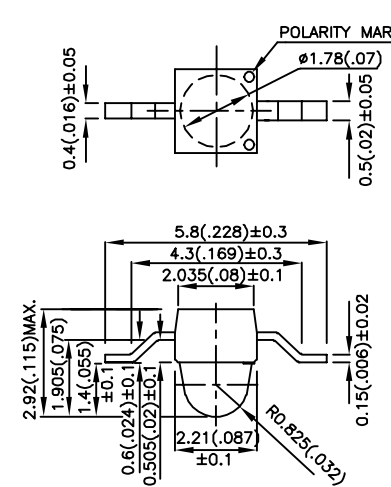
PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APF3236SURKVGAPBA	AlGaInP	630	water clear	70	220	120°	3.2mm x 3.6mm x 1.1mm (Full Color)  POLARITY MARK 1.1(.043) MAX. 0.5(.02) Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	InGaIn	525		50	150		
	InGaIn	470		18	60		
AAAF3528PBGSEJ3VGAW	InGaIn	470	white diffused	50	100	120°	3.5mm x 2.8mm x 1.4mm (Full Color)  POLARITY MARK 0.75[.03] ± 0.3 Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	AlGaInP	625		900	1700		
	InGaIn	525		110	330		
AAAF3528QBFSEJ3ZGW	AlGaInN	465	white diffused	110	200	120°	 POLARITY MARK 0.15[.006] 0.6[.024] Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
	AlGaInP	625		900	1700		
	InGaIn	525		480	900		

NOTE: 1.AP series custom-made is available upon request.

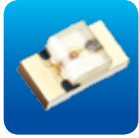
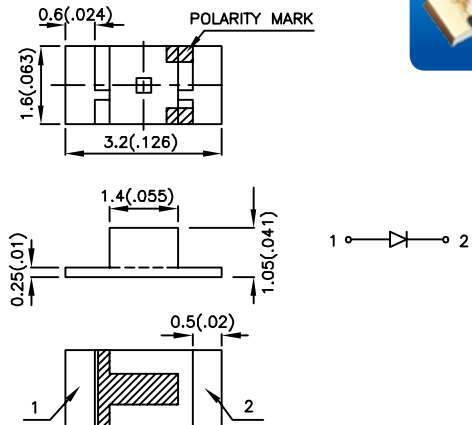
SUBMINIATURE SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
AM2520EC03	GaAsP/GaP	625	water clear	10	70	20°	Subminiature Solid State Lamps Gull Wing Lead  POLARITY MARK 1.4(.055) 0.13 MAX. 4.5(.177) ± 0.5 0.15(.006) ± 0.02 2(.079) ± 0.1 Units : mm(inch) Tolerance : $\pm 0.25(0.01)$
AM2520SRC03-RV	GaAlAs	640	water clear	110	600	20°	
AM2520SURCK03	AlGaInP	630	water clear	900	1800	20°	
AM2520SECK03	AlGaInP	601	water clear	900	1800	20°	
AM2520YC03	GaAsP/GaP	588	water clear	10	50	20°	
AM2520SYCK03	AlGaInP	590	water clear	900	1800	20°	
AM2520SGC03	GaP	568	water clear	36	80	20°	
AM2520MGC03	AlGaInP	570	water clear	280	600	20°	
AM2520CGCK03	AlGaInP	570	water clear	110	400	20°	
AM2520ZGC03	InGaIn	525	water clear	1200	2500	20°	
AM2520VGC/A03	InGaIn	525	water clear	380	800	20°	
AM2520QBC/D03	AlGaInN	470	water clear	180	500	20°	
AM2520PBC/A03	InGaIn	470	water clear	180	500	20°	

SUBMINIATURE SMD LED

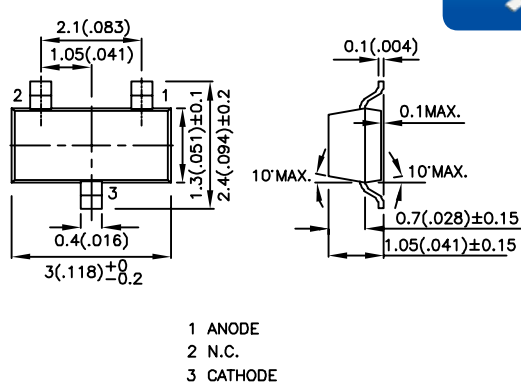
PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
AM2520EC09	GaAsP/GaP	625	water clear	10	70	20°	Subminiature Solid State Lamps Z-Bend Lead  AM2520xxx09  Units : mm(inch) Tolerance : ±0.25(0.01)
AM2520SRC09-RV	GaAlAs	640	water clear	110	600	20°	
AM2520SURCK09	AlGaInP	630	water clear	900	1800	20°	
AM2520SECK09	AlGaInP	601	water clear	900	1800	20°	
AM2520YC09	GaAsP/GaP	588	water clear	10	50	20°	
AM2520SYCK09	AlGaInP	590	water clear	900	1800	20°	
AM2520SGC09	GaP	568	water clear	36	80	20°	
AM2520MGC09	AlGaInP	570	water clear	280	600	20°	
AM2520CGCK09	AlGaInP	570	water clear	110	400	20°	
AM2520ZGC09	InGaIn	525	water clear	1200	2500	20°	
AM2520VGC/A09	InGaIn	525	water clear	380	800	20°	
AM2520QBC/D09	AlGaInN	470	water clear	180	500	20°	
AM2520PBC/A09	InGaIn	470	water clear	180	500	20°	
AM27EC03	GaAsP/GaP	625	water clear	10	70	20°	Subminiature Solid State Lamps Gull Wing Lead  AM27xxx03  Units : mm(inch) Tolerance : ±0.25(0.01)
AM27SRC03-RV	GaAlAs	640	water clear	110	600	20°	
AM27SURCK03	AlGaInP	630	water clear	900	1800	20°	
AM27SECK03	AlGaInP	601	water clear	900	1800	20°	
AM27YC03	GaAsP/GaP	588	water clear	10	50	20°	
AM27SYCK03	AlGaInP	590	water clear	900	1800	20°	
AM27SGC03	GaP	568	water clear	36	80	20°	
AM27MGC03	AlGaInP	570	water clear	280	600	20°	
AM27CGCK03	AlGaInP	570	water clear	110	400	20°	
AM27ZGC03	InGaIn	525	water clear	1200	2500	20°	
AM27VGC/A03	InGaIn	525	water clear	380	800	20°	
AM27QBC/D03	AlGaInN	470	water clear	180	500	20°	
AM27PBC/A03	InGaIn	470	water clear	180	500	20°	
AM27EC09	GaAsP/GaP	625	water clear	10	70	20°	Subminiature Solid State Lamps Z-Bend Lead  AM27xxx09  Units : mm(inch) Tolerance : ±0.25(0.01)
AM27SRC09-RV	GaAlAs	640	water clear	110	600	20°	
AM27SURCK09	AlGaInP	630	water clear	900	1800	20°	
AM27SECK09	AlGaInP	601	water clear	900	1800	20°	
AM27YC09	GaAsP/GaP	588	water clear	10	50	20°	
AM27SYCK09	AlGaInP	590	water clear	900	1800	20°	
AM27SGC09	GaP	568	water clear	36	80	20°	
AM27MGC09	AlGaInP	570	water clear	280	600	20°	
AM27CGCK09	AlGaInP	570	water clear	110	400	20°	
AM27ZGC09	InGaIn	525	water clear	1200	2500	20°	
AM27VGC/A09	InGaIn	525	water clear	380	800	20°	
AM27QBC/D09	AlGaInN	470	water clear	180	500	20°	
AM27PBC/A09	InGaIn	470	water clear	180	500	20°	

REVERSE MOUNT SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
APTR3216EC	GaAsP/GaP	625	water clear	4	12	120°	3.2mm x 1.6mm x 1.05mm (1206 Reverse Mount)   Units : mm (inch) Tolerance : $\pm 0.2(0.008)$
APTR3216SRCPRV	GaAlAs	640	water clear	36	80	120°	
APTR3216SURCK	AlGaInP	630	water clear	70	220	120°	
APTR3216SECK	AlGaInP	601	water clear	70	240	120°	
APTR3216YC	GaAsP/GaP	588	water clear	2.6	8	120°	
APTR3216SYCK	AlGaInP	590	water clear	50	150	120°	
APTR3216SGC	GaP	568	water clear	4	15	120°	
APTR3216MGC	AlGaInP	570	water clear	18	70	120°	
APTR3216CGCK	AlGaInP	570	water clear	10	40	120°	
APTR3216ZGC	InGaIn	525	water clear	110	300	120°	
APTR3216VGC/A	InGaIn	525	water clear	50	180	120°	
APTR3216VGC/Z-PRV	InGaIn	535	water clear	180	400	120°	
APTR3216QBC/D	AlGaInN	470	water clear	50	100	120°	
APTR3216PBC/A	InGaIn	470	water clear	18	60	120°	
APTR3216PBC/Z-PRV-SI	InGaIn	465	water clear	70	180	120°	

NOTE: 1.AP series custom-made is available upon request.

SOT-23 SMD LED

PART NUMBER	MATERIAL	λ_D (nm)	LENS TYPE	Iv (mcd) @20mA		VIEWING ANGLE 2 θ 1/2	DIMENSION
				MIN.	TYP.		
AM23ID-F	GaAsP/GaP	625	red diffused	4	12	140°	SOT-23 Surface Mount LED Lamp (3mm x 1.3mm)   Units : mm (inch) Tolerance : $\pm 0.25(0.01)$
AM23EC-F	GaAsP/GaP	625	water clear	4	15	140°	
AM23SRD-F-RV	GaAlAs	640	red diffused	36	70	140°	
AM23SRC-F-RV	GaAlAs	640	water clear	36	90	140°	
AM23YD-F	GaAsP/GaP	588	yellow diffused	2.6	8.5	140°	
AM23YC-F	GaAsP/GaP	588	water clear	2.6	10	140°	
AM23SYD-F	AlGaInP	590	yellow diffused	50	100	140°	
AM23SYC-F	AlGaInP	590	water clear	50	150	140°	
AM23SGD-F	GaP	568	green diffused	2.6	8	140°	
AM23SGC-F	GaP	568	water clear	4	15	140°	