

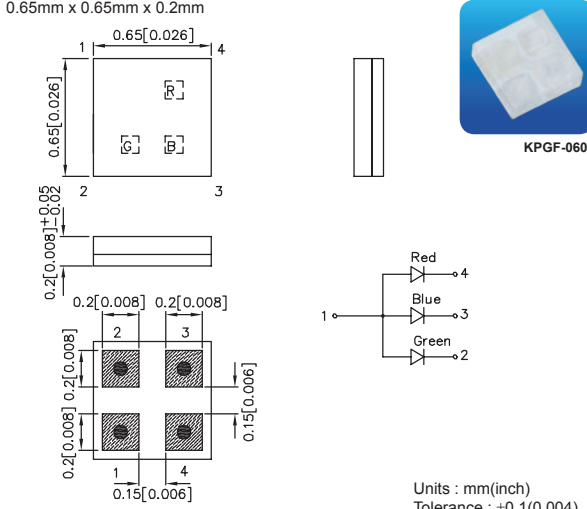
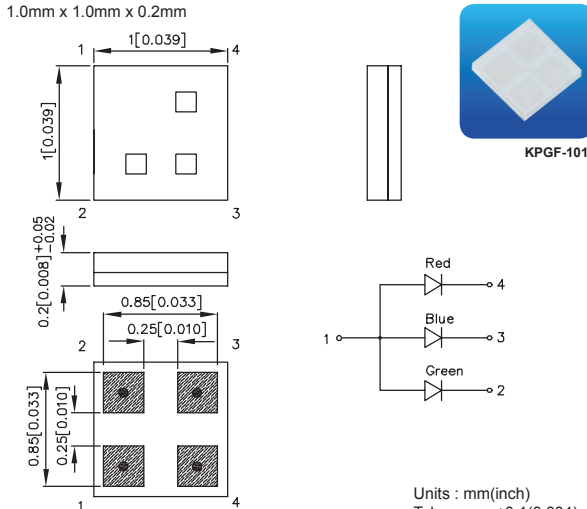
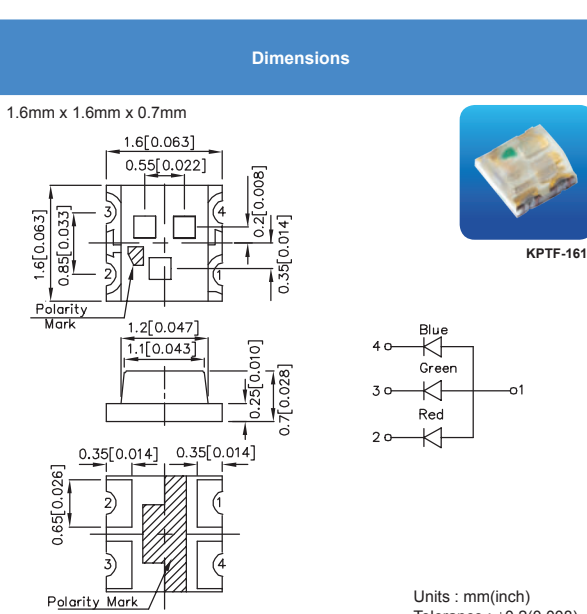
Kingbright

Optoelectronic Components

SMD LED

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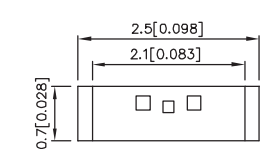
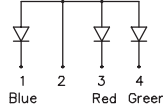
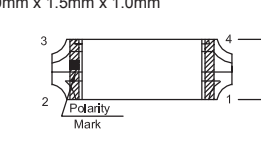
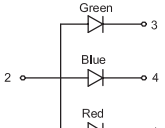
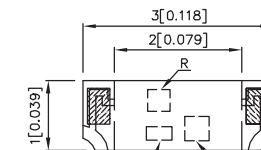
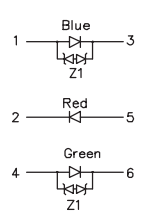
RGB SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @5mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPGF-0606GBRC-120	InGaN	527	water clear	30	90	140°	0.65mm x 0.65mm x 0.2mm 
	InGaN	467		5	20	140°	
	AlGaInP	624		10	30	140°	
KPGF-1011GBRC-120	InGaN	527	water clear	50	80	150°	1.0mm x 1.0mm x 0.2mm 
	InGaN	467		10	23	150°	
	AlGaInP	624		15	30	150°	
KPTF-1616RGBBC-11	AlGaInP	621	water clear	55	110	130°	1.6mm x 1.6mm x 0.7mm 
	InGaN	525		120	280	130°	
	InGaN	465		40	70	130°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

RGB SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle $2\theta_{1/2}$	Dimensions
				Min.	Typ.		
KPFA-2507BRGC-11	InGaN	465	water clear	40	65	130°	2.5mm x 1.0mm x 0.7mm  
	AlGaInP	621		80	110	130°	
	InGaN	525		200	400	130°	
KPFA-3010RGBC-11	AlGaInP	621	water clear	80	140	150°	3.0mm x 1.5mm x 1.0mm  
	InGaN	525		300	500	150°	
	InGaN	465		40	70	150°	
KPFA-3011BZ1RGZ1C-132/F	InGaN	470	water clear	55	110	150°	3.0mm x 1.5mm x 1.0mm  
	AlGaInP	624		400	660	150°	
	InGaN	525		500	780	150°	

NOTES:

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RGB SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KAA-3528RGBS-K11-C8-CC	AlGaInP	625	water clear	400	500	120°	3.5mm x 2.8mm x 1.9mm KAA-3528 Units : mm (inch) Tolerance : ±0.25(0.01)
	InGaN	525		1000	1600	120°	
	InGaN	470		200	330	120°	
KAAF-3529BGRS-132	InGaN	470	water clear	200	300	130°	3.5mm x 2.8mm x 1.8mm KAAF-3529 Units : mm (inch) Tolerance : ±0.2(0.008)
	InGaN	525		1000	1600	130°	
	AlGaInP	624		700	950	130°	
KAAF-5050RGBS-13	AlGaInP	625	water clear	*1000	*1400	120°	5.0mm x 5.0mm x 1.5mm KAAF-5050 Units : mm (inch) Tolerance : ±0.2(0.008)
	InGaN	525		1000	1400	120°	
	InGaN	470		300	420	120°	

NOTE:
1. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA*10mA**5mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPG-0603SURC-TT	AlGaInP	631	water clear	*10	*35	140°	<p>0.65mm x 0.35mm x 0.2mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPG-0603SEC-E-TT	AlGaInP	624	water clear	*15	*40	140°	
KPG-0603SEC-TT	AlGaInP	605	water clear	*20	*50	140°	
KPG-0603SYC-TT	AlGaInP	589	water clear	*10	*30	140°	
KPG-0603CGC-TT	AlGaInP	571	water clear	*6	*15	140°	
KPG-0603VGC-TT-5MAV	InGaN	527	water clear	**30	**80	140°	
KPG-0603PBC-TT-5MAV	InGaN	467	water clear	**15	**25	140°	
KPG-1005SURC-TT	AlGaInP	631	water clear	20	65	120°	<p>1.0mm x 0.5mm x 0.2mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPG-1005SEC-E-TT	AlGaInP	624	water clear	20	75	120°	
KPG-1005SEC-TT	AlGaInP	605	water clear	40	90	120°	
KPG-1005SYC-TT	AlGaInP	589	water clear	55	100	120°	
KPG-1005CGC-TT	AlGaInP	571	water clear	12	35	120°	
KPG-1005VGC-TT-5MAV	InGaN	527	water clear	**30	**70	140°	
KPG-1005PBC-TT-5MAV	InGaN	467	water clear	**20	**28	140°	
KPHHS-1005SURCK	AlGaInP	630	water clear	40	70	120°	<p>1.0mm x 0.5mm x 0.5mm (0402)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPHHS-1005SECK	AlGaInP	601	water clear	80	150	120°	
KPHHS-1005SYCK	AlGaInP	590	water clear	80	150	120°	
KPHHS-1005CGCK	AlGaInP	570	water clear	20	50	120°	
KPHHS-1005ZGC-V	InGaN	525	water clear	200	450	140°	
KPHHS-1005QBC-D-V	InGaN	465	water clear	40	60	140°	

NOTES:

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TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA*5mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPG1-1608SURC-TT	AlGaInP	631	water clear	20	65	120°	<p>1.6mm x 0.8mm x 0.2mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPG1-1608SEC-E-TT	AlGaInP	624	water clear	20	75	120°	
KPG1-1608SEC-TT	AlGaInP	605	water clear	40	90	120°	
KPG1-1608SYC-TT	AlGaInP	589	water clear	55	100	120°	
KPG1-1608CGC-TT	AlGaInP	571	water clear	12	35	120°	
KPG1-1608VGC-TT-5MAV	InGaN	527	water clear	*30	*70	120°	
KPG1-1608PBC-TT-5MAV	InGaN	467	water clear	*8	*20	120°	
KPG-1608SURKC-T	AlGaInP	630	water clear	55	110	120°	<p>1.6mm x 0.8mm x 0.25mm (0603)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPG-1608SEKC-T	AlGaInP	601	water clear	55	100	120°	
KPG-1608SYKC-T	AlGaInP	590	water clear	55	120	120°	
KPG-1608CGKC-T	AlGaInP	570	water clear	20	50	120°	
KPG-1608ZGC	InGaN	525	water clear	300	450	130°	
KPG-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPG-1608VBC-D	InGaN	470	water clear	120	200	130°	
KPHM-1608EC-T	GaAsP/GaP	617	water clear	3	8	150°	<p>1.6mm x 0.8mm x 0.4mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPHM-1608SURCK	AlGaInP	630	water clear	40	80	120°	
KPHM-1608SECK	AlGaInP	601	water clear	80	180	120°	
KPHM-1608YC-T	GaAsP/GaP	588	water clear	5	8	150°	
KPHM-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KPHM-1608SGC-T	GaP	568	water clear	5	12	150°	
KPHM-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KPHM-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPHM-1608VBC-D	InGaN	470	water clear	120	180	130°	

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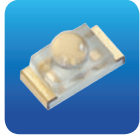
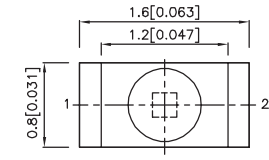
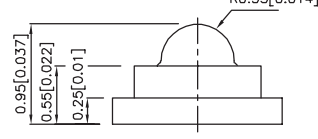
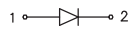

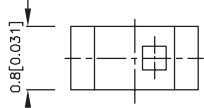
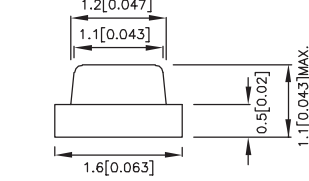
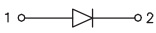
TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPH-1608SURCK	AlGaInP	630	water clear	40	80	120°	<p>1.6mm x 0.8mm x 0.65mm (0603)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPH-1608SECK	AlGaInP	601	water clear	80	180	120°	
KPH-1608YC	GaAsP/GaP	588	water clear	3	8	150°	
KPH-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KPH-1608SGC	GaP	568	water clear	5	12	150°	
KPH-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KPH-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPHD-1608SURCK	AlGaInP	630	water clear	40	170	120°	<p>1.6mm x 0.8mm x 0.65mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.006)$</p>
KPHD-1608SECK-J3-PRV	AlGaInP	625	water clear	300	600	120°	
KPHD-1608SECK-J4-PRV	AlGaInP	605	water clear	400	820	120°	
KPHD-1608SECK	AlGaInP	601	water clear	80	210	120°	
KPHD-1608SYCK	AlGaInP	590	water clear	80	210	120°	
KPHD-1608SYCK-J3-PRV	AlGaInP	590	water clear	300	600	120°	
KPHD-1608CGCK	AlGaInP	570	water clear	20	80	120°	
KPHD-1608ZGCK	InGaN	525	water clear	400	940	90°	<p>1.6mm x 0.8mm x 0.75mm (0603)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPT-1608EC	GaAsP/GaP	617	water clear	3	8	150°	
KPT-1608SURCK	AlGaInP	630	water clear	40	80	120°	
KPT-1608SECK	AlGaInP	601	water clear	80	180	120°	
KPT-1608YC	GaAsP/GaP	588	water clear	3	8	150°	
KPT-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KPT-1608SGC	GaP	568	water clear	5	12	150°	
KPT-1608CGCK	AlGaInP	570	water clear	20	50	120°	<p>1.6mm x 0.8mm x 0.75mm (0603)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPT-1608ZGC	InGaN	525	water clear	200	400	130°	
KPT-1608QBC-D	InGaN	465	water clear	40	100	130°	
KPT-1608VBC-D	InGaN	470	water clear	120	180	130°	

NOTES:

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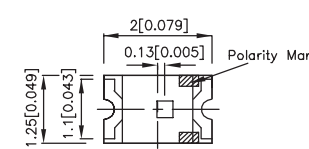
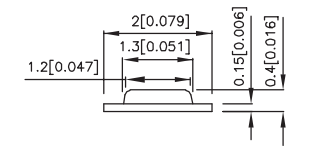
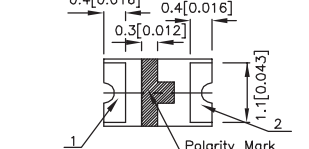
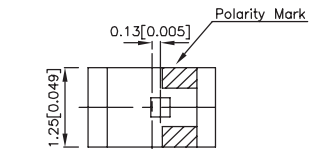
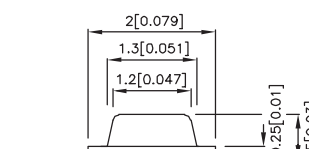
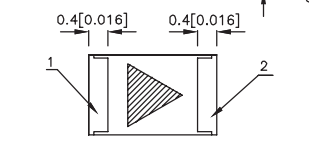
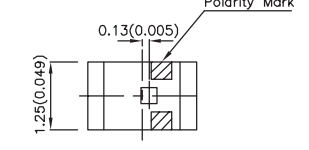
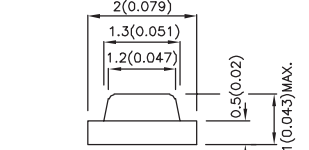
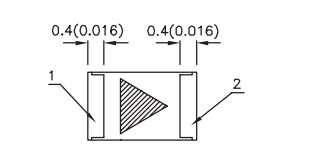
TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPTD-1608SURCK	AlGaInP	630	water clear	80	250	60°	<p>1.6mm x 0.8mm x 0.95mm (Dome Lens)</p>  <p>KPTD-1608</p>    <p>Units : mm(inch) Tolerance : $\pm 0.15(0.006)$</p>
KPTD-1608SECK	AlGaInP	601	water clear	200	500	60°	
KPTD-1608SYCK	AlGaInP	590	water clear	300	600	60°	
KPTD-1608CGCK	AlGaInP	570	water clear	80	190	60°	
KPTD-1608ZGC	InGaN	525	water clear	700	1300	60°	
KPTD-1608ZGC-G	InGaN	525	water clear	1000	1500	60°	
KPTD-1608QBC-D	InGaN	465	water clear	80	200	40°	
KPTD-1608QBC-G	InGaN	465	water clear	200	350	40°	
KPTD-1608VBC-D	InGaN	470	water clear	200	350	40°	
KPC-1608SEC-E	AlGaInP	621	water clear	55	100	150°	
KPC-1608SECK-J4-PRV	AlGaInP	605	water clear	300	550	150°	
KPC-1608SYCK	AlGaInP	590	water clear	80	150	150°	
KPC-1608SYCK-J3-PRV	AlGaInP	590	water clear	200	320	150°	
KPC-1608FGCK	AlGaInP	568	water clear	20	50	150°	
KP-1608EC	GaAsP/GaP	617	water clear	3	8	150°	<p>1.6mm x 0.8mm x 1.1mm (0603)</p>  <p>KP-1608</p>    <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KP-1608SURCK	AlGaInP	630	water clear	40	80	120°	
KP-1608SECK	AlGaInP	601	water clear	80	180	120°	
KP-1608YC	GaAsP/GaP	588	water clear	3	8	150°	
KP-1608SYCK	AlGaInP	590	water clear	80	150	120°	
KP-1608SGC	GaP	568	water clear	5	12	150°	
KP-1608CGCK	AlGaInP	570	water clear	20	50	120°	
KP-1608ZGC	InGaN	525	water clear	200	400	130°	
KP-1608QBC-D	InGaN	465	water clear	40	100	130°	

NOTES:

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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	Dimensions
				Min.	Typ.		
KPHCM-2012SURCK	AlGaInP	630	water clear	40	80	140°	2.0mm x 1.25mm x 0.4mm (0805)    Units : mm(inch) Tolerance : ±0.1(0.004)
KPHCM-2012SECK	AlGaInP	601	water clear	80	180	140°	
KPHCM-2012SYCK	AlGaInP	590	water clear	80	150	140°	
KPHCM-2012CGCK	AlGaInP	570	water clear	20	50	140°	
KPHCM-2012ZGC	InGaN	525	water clear	200	400	140°	
KPHCM-2012QBC-D	InGaN	465	water clear	40	100	140°	
KPT-2012EC	GaAsP/GaP	617	water clear	3	8	160°	2.0mm x 1.25mm x 0.75mm (0805)    Units : mm(inch) Tolerance : ±0.1(0.004)
KPT-2012SURCK	AlGaInP	630	water clear	40	80	140°	
KPT-2012SECK	AlGaInP	601	water clear	80	180	140°	
KPT-2012YC	GaAsP/GaP	588	water clear	3	8	160°	
KPT-2012SYCK	AlGaInP	590	water clear	80	150	140°	
KPT-2012SGC	GaP	568	water clear	5	12	160°	
KPT-2012CGCK	AlGaInP	570	water clear	20	50	140°	
KPT-2012ZGC	InGaN	525	water clear	200	400	140°	
KPT-2012QBC-D	InGaN	465	water clear	40	100	140°	
KPT-2012VBC-D	InGaN	470	water clear	120	180	140°	
KP-2012EC	GaAsP/GaP	617	water clear	3	8	160°	2.0mm x 1.25mm x 1.1mm (0805)    Units : mm(inch) Tolerance : ±0.1(0.004)
KP-2012SURCK	AlGaInP	630	water clear	40	80	140°	
KP-2012SECK	AlGaInP	601	water clear	80	180	140°	
KP-2012YC	GaAsP/GaP	588	water clear	3	8	160°	
KP-2012SYCK	AlGaInP	590	water clear	80	150	140°	
KP-2012SGC	GaP	568	water clear	5	12	160°	
KP-2012CGCK	AlGaInP	570	water clear	20	50	140°	
KP-2012ZGC	InGaN	525	water clear	200	400	140°	
KP-2012QBC-D	InGaN	465	water clear	40	100	140°	

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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	Dimensions
				Min.	Typ.		
KPL-3015EC	GaAsP/GaP	617	water clear	5	12	100°	<p>3.0mm x 1.5mm x 1.4mm (1106)</p> <p>KPL-3015</p>
KPL-3015SURCK	AlGaInP	630	water clear	120	180	70°	
KPL-3015SECK	AlGaInP	601	water clear	120	350	70°	
KPL-3015SYCK	AlGaInP	590	water clear	200	350	70°	
KPL-3015YC	GaAsP/GaP	588	water clear	8	14	100°	
KPL-3015SGC	GaP	568	water clear	8	18	100°	
KPL-3015CGCK	AlGaInP	570	water clear	55	120	70°	
KPL-3015ZGCK	InGaN	525	water clear	500	800	50°	
KPL-3015QBC-D	InGaN	465	water clear	120	200	50°	
KPTC-3212SURCK-01	AlGaInP	630	water clear	40	80	140°	<p>3.2mm x 1.25mm x 1.1mm</p> <p>KPTC-3212</p>
KPTC-3212SECK-01	AlGaInP	601	water clear	80	180	140°	
KPTC-3212SYCK-01	AlGaInP	590	water clear	80	180	140°	
KPTC-3212CGCK-01	AlGaInP	570	water clear	20	50	140°	
KPTC-3212QBC-D-01	InGaN	465	water clear	40	80	140°	
							Units : mm(inch) Tolerance : $\pm 0.2(0.008)$
KPT-3216EC	GaAsP/GaP	617	water clear	3	8	160°	<p>3.2mm x 1.6mm x 0.75mm (1206)</p> <p>KPT-3216</p>
KPT-3216SURCK	AlGaInP	630	water clear	40	80	140°	
KPT-3216SECK	AlGaInP	601	water clear	80	180	140°	
KPT-3216YC	GaAsP/GaP	588	water clear	3	8	160°	
KPT-3216SYCK	AlGaInP	590	water clear	80	150	140°	
KPT-3216SGC	GaP	568	water clear	5	12	160°	
KPT-3216CGCK	AlGaInP	570	water clear	20	50	140°	
KPT-3216ZGCK	InGaN	525	water clear	200	400	150°	
KPT-3216QBC-D	InGaN	465	water clear	40	100	150°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KP-3216EC	GaAsP/GaP	617	water clear	3	8	160°	<p>3.2mm x 1.6mm x 1.1mm (1206)</p> <p>Units : mm(inch) Tolerance : ±0.2(0.008)</p>
KP-3216SURCK	AlGaInP	630	water clear	40	80	140°	
KP-3216SECK	AlGaInP	601	water clear	80	180	140°	
KP-3216YC	GaAsP/GaP	588	water clear	3	8	160°	
KP-3216SYCK	AlGaInP	590	water clear	80	150	140°	
KP-3216SGC	GaP	568	water clear	5	12	160°	
KP-3216CGCK	AlGaInP	570	water clear	20	50	140°	
KP-3216ZGC	InGaIn	525	water clear	200	400	150°	
KP-3216QBC-D	InGaIn	465	water clear	40	100	150°	
KPTL-3216SURCK	AlGaInP	630	water clear	120	230	80°	<p>3.2mm x 1.6mm x 1.1mm (1206)</p> <p>Units : mm(inch) Tolerance : ±0.1(0.004)</p>
KPTL-3216SECK	AlGaInP	601	water clear	200	350	80°	
KPTL-3216SYCK	AlGaInP	590	water clear	200	350	80°	
KPTL-3216CGCK	AlGaInP	570	water clear	55	100	80°	
KPTL-3216ZGC	InGaIn	525	water clear	700	1100	80°	
KPTL-3216QBC-D	InGaIn	465	water clear	120	250	80°	
KPTD-3216SURCK	AlGaInP	630	water clear	300	800	40°	<p>3.2mm x 1.6mm x 1.8mm (1206 Dome Lens)</p> <p>Units : mm(inch) Tolerance : ±0.2(0.008)</p>
KPTD-3216SECK	AlGaInP	601	water clear	500	1000	40°	
KPTD-3216SYCK	AlGaInP	590	water clear	700	800	40°	
KPTD-3216CGCK	AlGaInP	570	water clear	120	300	40°	
KPTD-3216ZGC	InGaIn	525	water clear	1900	3500	30°	
KPTD-3216ZGC-G	InGaIn	525	water clear	3100	4200	30°	
KPTD-3216QBC-D	InGaIn	465	water clear	300	700	30°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING CHIP SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPD-3224SURCK	AlGaInP	630	water clear	700	1500	20°	<p>3.2mm x 2.4mm x 2.4mm (Dome Lens)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPD-3224SECK	AlGaInP	601	water clear	1000	1600	20°	
KPD-3224SYCK	AlGaInP	590	water clear	1000	1300	20°	
KPD-3224CGCK	AlGaInP	570	water clear	400	600	20°	
KPD-3224ZGC	InGaN	525	water clear	3100	6000	20°	
KPD-3224QBC-D	InGaN	465	water clear	500	900	20°	
KPED-3528SURCK	AlGaInP	630	water clear	120	250	70°	<p>3.5mm x 2.8mm x 3.2mm (Dome Lens)</p> <p>Units : mm(inch) Tolerance : $\pm 0.2(0.008)$</p>
KPED-3528SECK	AlGaInP	601	water clear	400	700	70°	
KPED-3528SYCK	AlGaInP	590	water clear	300	500	70°	
KPED-3528CGCK	AlGaInP	570	water clear	80	200	70°	

RIGHT ANGLE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPGA-1602SURC-KA	AlGaInP	631	water clear	20	70	150°	<p>1.6mm x 0.9mm x 0.2mm (Right Angle)</p> <p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KPGA-1602SEC-E-KA	AlGaInP	624	water clear	55	120	150°	
KPGA-1602SEC-KA	AlGaInP	605	water clear	20	70	150°	
KPGA-1602SYC-KA	AlGaInP	589	water clear	40	75	150°	
KPGA-1602CGC-KA	AlGaInP	571	water clear	12	30	150°	
KPGA-1602QBC-KA	InGaN	463	water clear	20	60	150°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

RIGHT ANGLE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimensions
				Min.	Typ.		
KPA-1606SURCK	AlGaInP	630	water clear	40	80	110°	<p>1.6mm x 1.2mm x 0.6mm (0602 Right Angle)</p> <p>KPA-1606</p> <p>Units : mm(inch) Tolerance : ±0.1(0.004)</p>
KPA-1606SECK	AlGaInP	601	water clear	80	180	110°	
KPA-1606SYCK	AlGaInP	590	water clear	80	150	110°	
KPA-1606CGCK	AlGaInP	570	water clear	20	50	110°	
KPA-1606ZGC	InGaN	525	water clear	200	400	110°	
KPA-1606QBC-D	InGaN	465	water clear	40	80	110°	
KPA-1606QBC-G	InGaN	465	water clear	80	150	110°	
KPA-1606VBC-D	InGaN	470	water clear	120	200	110°	
KPA-2107SURCK	AlGaInP	630	water clear	40	80	140°	<p>2.1mm x 1.0mm x 0.6mm (Right Angle)</p> <p>KPA-2107</p> <p>Units : mm(inch) Tolerance : ±0.1(0.004)</p>
KPA-2107SECK	AlGaInP	601	water clear	80	180	140°	
KPA-2107SYCK	AlGaInP	590	water clear	80	150	140°	
KPA-2107CGCK	AlGaInP	570	water clear	20	50	140°	
KPA-2107ZGCK	InGaN	525	water clear	200	300	170°	
KPA-2107ZGC-G	InGaN	525	water clear	400	650	170°	
KPA-2107QBC-D	InGaN	465	water clear	40	80	170°	
KPA-2107VBC-D	InGaN	470	water clear	120	200	170°	
KPA-3010EC	GaAsP/GaP	617	water clear	3	6	120°	<p>3.0mm x 2.0mm x 1.0mm (1104 Right Angle)</p> <p>KPA-3010</p> <p>Units : mm(inch) Tolerance : ±0.15(0.006)</p>
KPA-3010SURCK	AlGaInP	630	water clear	40	80	120°	
KPA-3010SECK	AlGaInP	601	water clear	80	180	120°	
KPA-3010YC	GaAsP/GaP	588	water clear	3	6	120°	
KPA-3010SYCK	AlGaInP	590	water clear	80	150	120°	
KPA-3010SGC	GaP	568	water clear	5	12	120°	
KPA-3010CGCK	AlGaInP	570	water clear	20	50	120°	
KPA-3010ZGC	InGaN	525	water clear	200	400	120°	
KPA-3010QBC-D	InGaN	465	water clear	40	80	120°	
KPPA-3010SURCK	AlGaInP	630	water clear	200	300	30°	<p>3.0mm x 2.5mm x 1.0mm (Right Angle)</p> <p>KPPA-3010</p> <p>Units : mm(inch) Tolerance : ±0.15(0.006)</p>
KPPA-3010SYCK	AlGaInP	590	water clear	300	450	30°	
KPPA-3010CGCK	AlGaInP	570	water clear	80	150	30°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

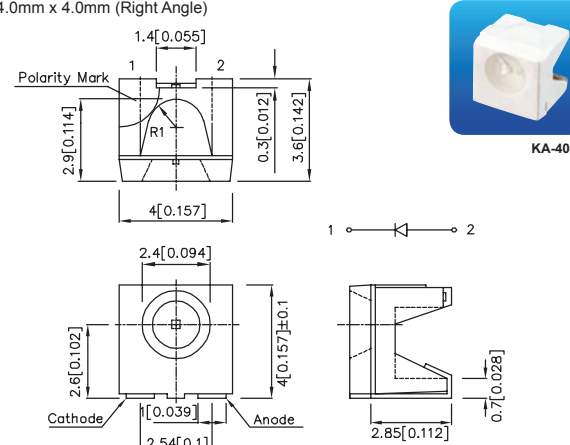
RIGHT ANGLE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPA-3210SYCK	AlGaInP	590	water clear	80	150	120°	<p>3.2mm x 1.5mm x 1.0mm (1304 Right Angle)</p> <p>KPA-3210</p>
KPA-3210ZGC	InGaN	525	water clear	200	400	150°	
KPA-3210VBC-D	InGaN	470	water clear	120	200	150°	<p>Units : mm(inch) Tolerance : $\pm 0.1(0.004)$</p>
KA-2810ASURSK	AlGaInP	630	water clear	40	100	110°	<p>2.8mm x 1.2mm x 0.8mm (Right Angle)</p> <p>KA-2810A</p>
KA-2810ASYSK	AlGaInP	590	water clear	120	200	110°	
KA-2810ACGSK	AlGaInP	570	water clear	20	60	110°	
KA-2810AZGS	InGaN	525	water clear	500	850	110°	
KA-2810AZGS-G	InGaN	525	water clear	1000	1400	110°	
KA-2810AQBS-D	InGaN	465	water clear	80	150	110°	
KA-2810AVBS-D	InGaN	470	water clear	200	350	110°	
KA-2810AVBS-D	InGaN	470	water clear	200	350	110°	
KA-4008SURSK	AlGaInP	630	water clear	55	90	120°	<p>4.0mm x 0.8mm (Right Angle)</p> <p>KA-4008</p>
KA-4008ZGS	InGaN	525	water clear	500	800	120°	
KA-4008VBS-D	InGaN	470	water clear	300	450	120°	

NOTES:

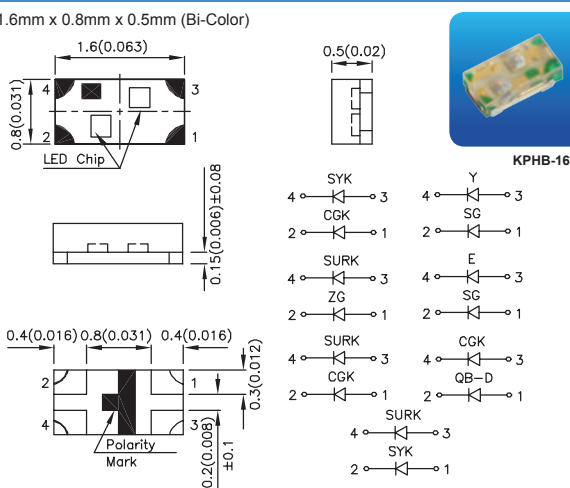
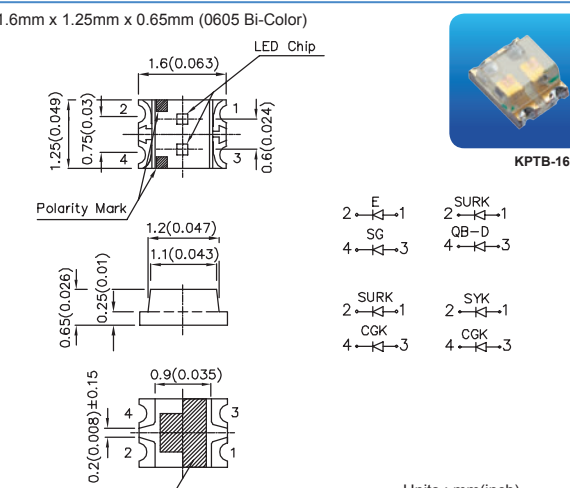
1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

RIGHT ANGLE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KA-4040SURCKT	AlGaInP	630	water clear	80	150	120°	4.0mm x 4.0mm (Right Angle) 
KA-4040SECKT	AlGaInP	601	water clear	80	220	120°	
KA-4040SYCKT	AlGaInP	590	water clear	120	250	120°	
KA-4040CGCKT	AlGaInP	570	water clear	40	90	120°	
KA-4040ZGCT	InGaN	525	water clear	500	850	120°	
KA-4040QBS-D	InGaN	465	water clear	80	220	120°	

Units : mm(inch)
Tolerance : $\pm 0.25(0.01)$

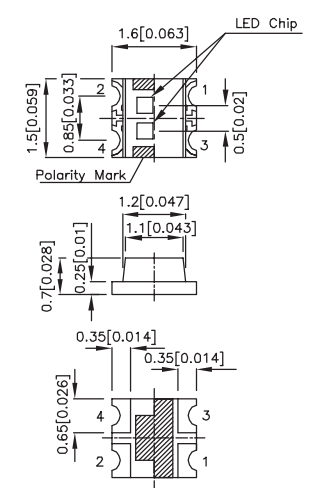

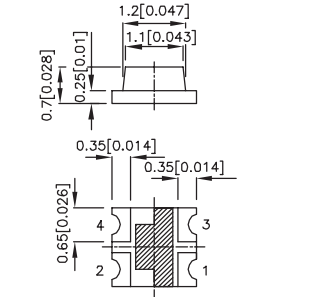
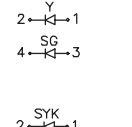
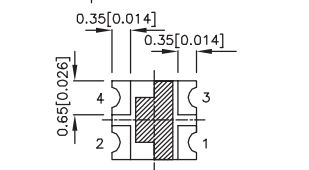
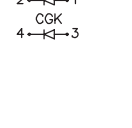
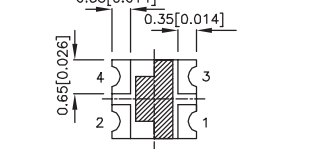
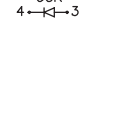
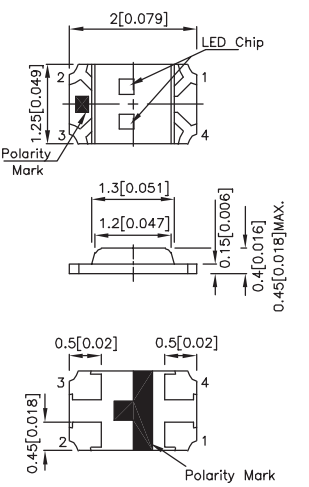

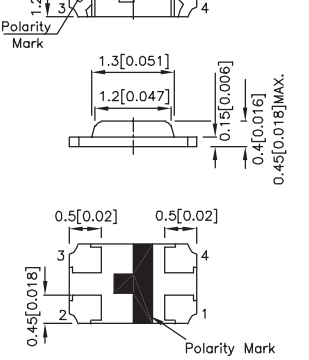
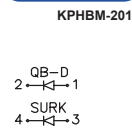
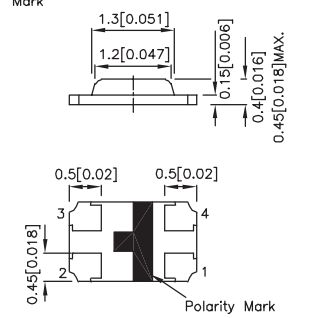
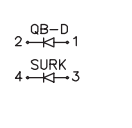
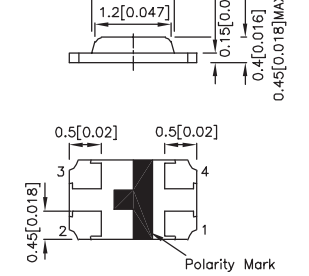
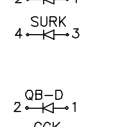
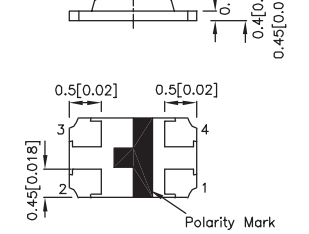
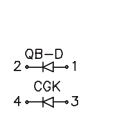
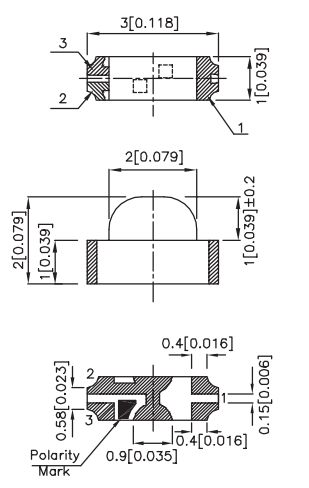
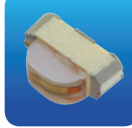
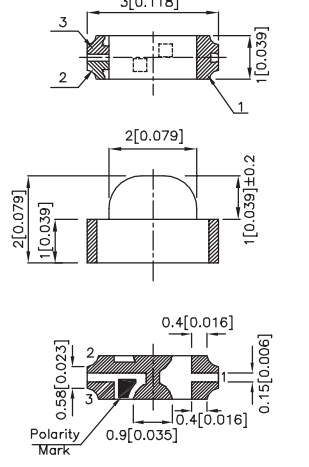

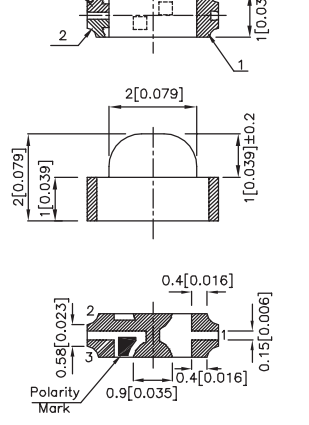

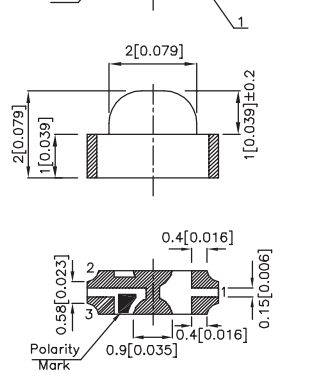
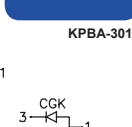
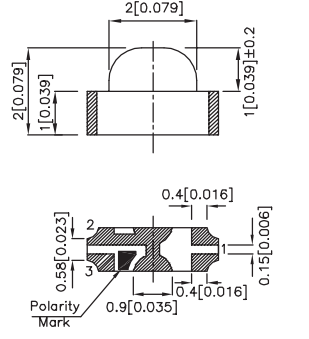
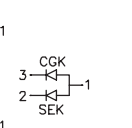
MULTI-COLOR SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPHB-1608CGKSYKC-GX	AlGaInP	570	water clear	20	50	130°	1.6mm x 0.8mm x 0.5mm (Bi-Color) 
	AlGaInP	590		80	150		
KPHB-1608ZGSURKC-GX	InGaN	525	water clear	200	350	130°	
	AlGaInP	630		40	90		
KPHB-1608CGKSURKC-GX	AlGaInP	570	water clear	20	50	130°	
	AlGaInP	630		40	90		
KPHB-1608SGYC-GX	GaP	568	water clear	5	15	130°	
	GaAsP/GaP	588		3	5		
KPHB-1608SGEC-GX	GaP	568	water clear	5	15	130°	
	GaAsP/GaP	617		5	12		
KPHB-1608QBDCGKC-GX	InGaN	465	water clear	40	70	130°	
	AlGaInP	570		20	50		
KPHB-1608SYKSURKC-GX	AlGaInP	590	water clear	80	150	130°	
	AlGaInP	630		40	90		
KPTB-1612ESGC	GaAsP/GaP	617	water clear	3	7	150°	1.6mm x 1.25mm x 0.65mm (0605 Bi-Color) 
	GaP	568		5	12		
KPTB-1612SURKCGKC	AlGaInP	630	water clear	40	80	150°	
	AlGaInP	570		20	50		
KPTB-1612SURKQBDC	AlGaInP	630	water clear	40	80	150°	
	InGaN	465		40	80		
KPTB-1612SYKCGKC	AlGaInP	590	water clear	80	120	150°	
	AlGaInP	570		20	50		

Units : mm(inch)
Tolerance : $\pm 0.15(0.006)$

NOTES:
 1. KP series custom-made is available upon request.
 2. Luminous intensity value is traceable to CIE127-2007 standards.

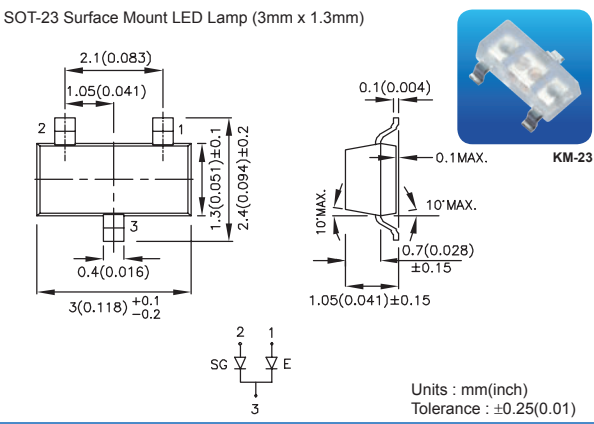
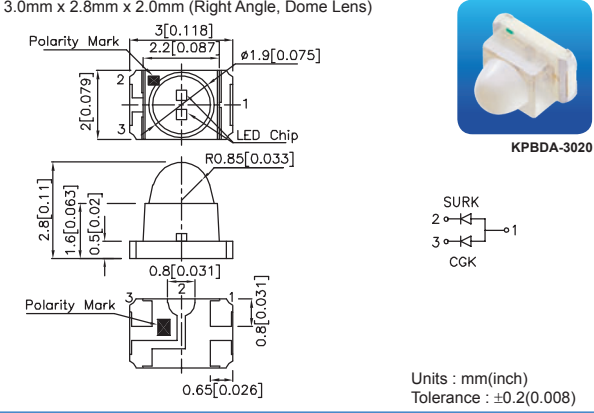
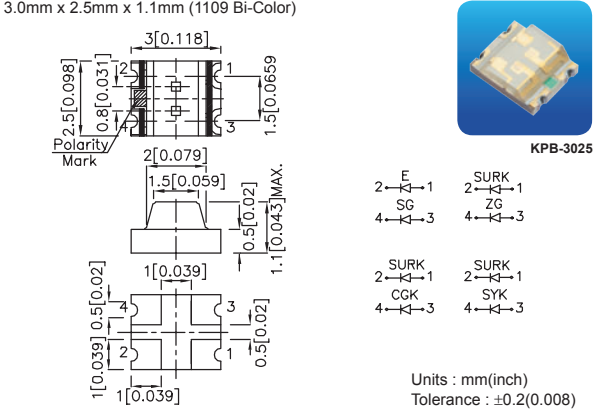
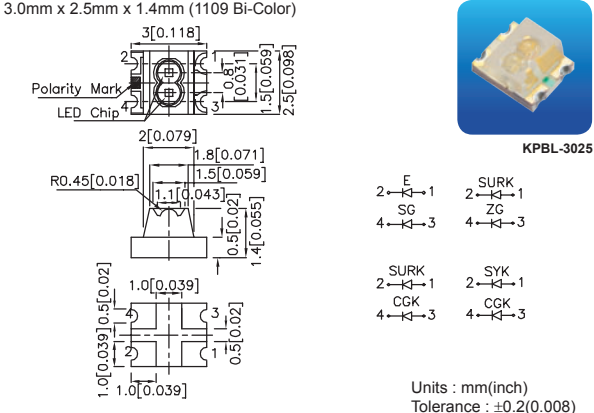

MULTI-COLOR SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions				
				Min.	Typ.						
KPTB-1615ESGC	GaAsP/GaP	617	water clear	3	7	150°	1.6mm x 1.5mm x 0.7mm (0606 Bi-Color)   <p>KPTB-1615</p>				
	GaP	568		5	12						
KPTB-1615SURKCGKC	AlGaInP	630	water clear	40	80	150°		Units: mm(inch) Tolerance: $\pm 0.2(0.008)$			
	AlGaInP	570		20	50						
KPTB-1615SURKQBDC	AlGaInP	630	water clear	40	80	150°			  <p>KPTB-1615</p>		
	InGaN	465		40	80						
KPTB-1615YSGC	GaAsP/GaP	588	water clear	3	8	150°				  <p>KPTB-1615</p>	
	GaP	568		5	12						
KPTB-1615SYKCGKC	AlGaInP	590	water clear	80	120	150°					  <p>KPTB-1615</p>
	AlGaInP	570		20	50						
KPHBM-2012SURKCGKC	AlGaInP	630	water clear	40	80	120°	2.0mm x 1.25mm x 0.45mm (Bi-Color)   <p>KPHBM-2012</p>				
	AlGaInP	570		20	50						
KPHBM-2012CGKSEKC	AlGaInP	570	water clear	20	50	120°		  <p>KPHBM-2012</p>			
	AlGaInP	601		80	180						
KPHBM-2012CGKSYKC	AlGaInP	570	water clear	20	50	120°			  <p>KPHBM-2012</p>		
	AlGaInP	590		80	120						
KPHBM-2012QBDSURKC	InGaN	465	water clear	40	80	120°				  <p>KPHBM-2012</p>	
	AlGaInP	630		40	80						
KPHBM-2012QBDCGKC	InGaN	465	water clear	40	80	120°					  <p>KPHBM-2012</p>
	AlGaInP	570		20	50						
KPBA-3010ESGC	GaAsP/GaP	617	water clear	3	8	140°	3.0mm x 1.0mm x 2.0mm (1104 Right Angle, Bi-Color)   <p>KPBA-3010</p>				
	GaP	568		5	15						
KPBA-3010SURKCGKC	AlGaInP	630	water clear	40	80	140°		  <p>KPBA-3010</p>			
	AlGaInP	570		40	70						
KPBA-3010SURKQBDC	AlGaInP	630	water clear	40	80	140°			  <p>KPBA-3010</p>		
	InGaN	465		40	90						
KPBA-3010SEKCGKC	AlGaInP	601	water clear	80	150	140°				  <p>KPBA-3010</p>	
	AlGaInP	570		40	70						
KPBA-3010SYKCGKC	AlGaInP	590	water clear	80	120	140°					  <p>KPBA-3010</p>
	AlGaInP	570		40	70						

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.


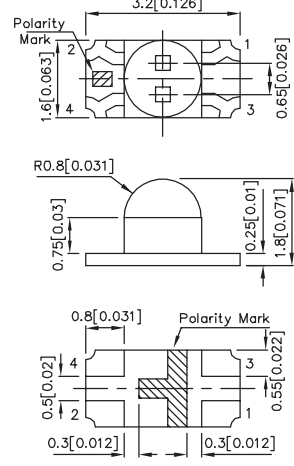
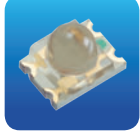
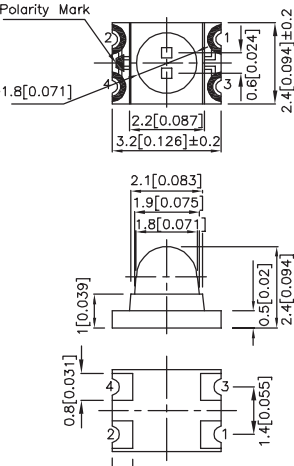

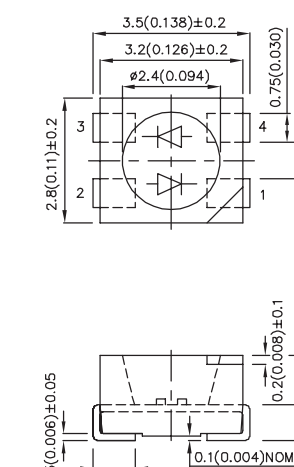
MULTI-COLOR SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KM-23ESGC	GaAsP/GaP	617	water clear	3	5	160°	SOT-23 Surface Mount LED Lamp (3mm x 1.3mm)  Units : mm(inch) Tolerance : ±0.25(0.01)
	GaP	568		5	10		
KPBD A-3020SURKCGKC-PF	AlGaInP	630	water clear	120	300	15°	3.0mm x 2.8mm x 2.0mm (Right Angle, Dome Lens)  Units : mm(inch) Tolerance : ±0.2(0.008)
	AlGaInP	570		120	300		
KPB-3025ESGC	GaAsP/GaP	617	water clear	3	8	160°	3.0mm x 2.5mm x 1.1mm (1109 Bi-Color)  Units : mm(inch) Tolerance : ±0.2(0.008)
	GaP	568		8	15		
KPB-3025SURKCGKC	AlGaInP	630	water clear	40	70	160°	 Units : mm(inch) Tolerance : ±0.2(0.008)
	AlGaInP	570		20	60		
KPB-3025SURKZGC	AlGaInP	630	water clear	40	70	160°	 Units : mm(inch) Tolerance : ±0.2(0.008)
	InGaN	525		200	350		
KPB-3025SURKSYKC	AlGaInP	630	water clear	40	70	160°	Units : mm(inch) Tolerance : ±0.2(0.008)
	AlGaInP	590		80	120		
KPBL-3025ESGC	GaAsP/GaP	617	water clear	8	15	70°	3.0mm x 2.5mm x 1.4mm (1109 Bi-Color) Units : mm(inch) Tolerance : ±0.2(0.008)
	GaP	568		12	20		
KPBL-3025SURKCGKC	AlGaInP	630	water clear	120	300	50°	Units : mm(inch) Tolerance : ±0.2(0.008)
	AlGaInP	570		80	150		
KPBL-3025SURKZGC	AlGaInP	630	water clear	120	300	50°	Units : mm(inch) Tolerance : ±0.2(0.008)
	InGaN	525		400	800		
KPBL-3025SYKCGKC	AlGaInP	590	water clear	200	400	50°	Units : mm(inch) Tolerance : ±0.2(0.008)
	AlGaInP	570		80	150		

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

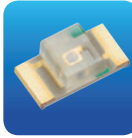
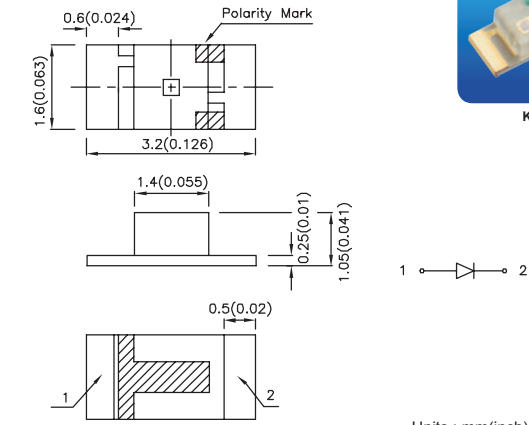
MULTI-COLOR SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle	Dimensions	
				Min.	Typ.			
KPTBD-3216ESGC	GaAsP/GaP	617	water clear	3	8	30°	<p>3.2mm x 1.6mm x 1.8mm (Bi-Color)</p>  <p>KPTBD-3216</p>  <p>Units: mm(inch) Tolerance: ±0.2(0.008)</p>	
	GaP	568		20	40			
KPTBD-3216SURKCGKC	AlGaN	630	water clear	300	600	30°		
	AlGaN	570		120	250			
KPTBD-3216SURKZGC	AlGaN	630	water clear	300	600	30°		
	InGaN	525		500	1000			
KPTBD-3216SEJ3ZGGC	AlGaN	625	water clear	1000	1500	30°		
	InGaN	525		700	1300			
KPTBD-3216SYKCGKC	AlGaN	590	water clear	300	600	30°		
	AlGaN	570		120	250			
KPBD-3224ESGC	GaAsP/GaP	617	water clear	12	40	20°	<p>3.2mm x 2.4mm x 2.4mm (Dome Lens)</p>  <p>KPBD-3224</p>  <p>Units: mm(inch) Tolerance: ±0.1(0.004)</p>	
	GaP	568		20	55			
KPBD-3224SURKCGKC	AlGaN	630	water clear	120	400	20°		
	AlGaN	570		80	280			
KPBD-3224SURKZGC	AlGaN	630	water clear	120	400	20°		
	InGaN	525		500	950			
KPBD-3224SYKCGKC	AlGaN	590	water clear	400	800	20°		
	AlGaN	570		80	280			
KAA-3528ESGCT	GaAsP/GaP	617	water clear	8	15	120°		<p>3.5mm x 2.8mm</p>  <p>KAA-3528</p>  <p>Units: mm(inch) Tolerance: ±0.25(0.01)</p>
	GaP	568		12	30			
KAA-3528SURKCGKCT	AlGaN	630	water clear	55	100	120°		
	AlGaN	570		40	80			
KAA-3528SURKSYKCT	AlGaN	630	water clear	55	100	120°		
	AlGaN	590		120	240			


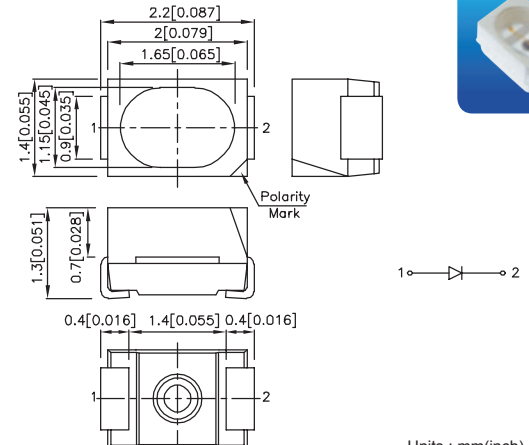

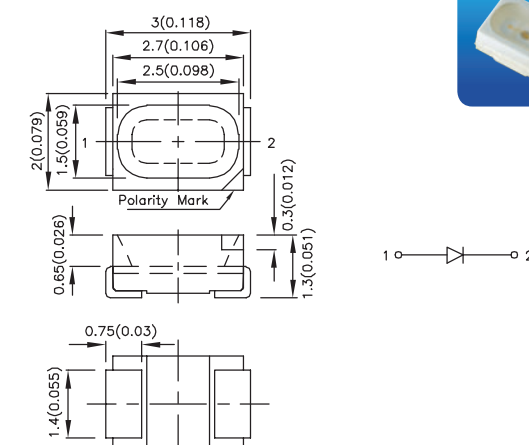
NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

REVERSE MOUNT SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KPTR-3216SURCK	AlGaInP	630	water clear	40	80	140°	3.2mm x 1.6mm x 1.05mm (1206 Reverse Mount)   <p>Units : mm(inch) Tolerance : ±0.2(0.008)</p>
KPTR-3216SECK	AlGaInP	601	water clear	80	180	140°	
KPTR-3216SYCK	AlGaInP	590	water clear	80	150	140°	
KPTR-3216CGCK	AlGaInP	570	water clear	20	50	140°	
KPTR-3216ZGC	InGaN	525	water clear	200	400	140°	
KPTR-3216QBC-D	InGaN	465	water clear	40	100	140°	

TOP-EMITTING PLCC SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KA-2214SURSK	AlGaInP	630	water clear	55	100	120°	2.2mm x 1.4mm x 1.3mm   <p>Units : mm(inch) Tolerance : ±0.2(0.008)</p>
KA-2214ZGS	InGaN	525	water clear	400	700	120°	
KA-2214QBS-D	InGaN	465	water clear	80	150	120°	
KA-3021SURSK	AlGaInP	630	water clear	40	90	120°	3.0mm x 2.0mm x 1.3mm   <p>Units : mm(inch) Tolerance : ±0.2(0.008)</p>
KA-3021YS	GaAsP/GaP	588	water clear	8	15	120°	
KA-3021SYSK	AlGaInP	590	water clear	120	200	120°	
KA-3021SGS	GaP	568	water clear	12	20	120°	
KA-3021CGSK	AlGaInP	570	water clear	40	80	120°	
KA-3021ZGS	InGaN	525	water clear	400	800	120°	
KA-3021QBS-D	InGaN	465	water clear	80	120	120°	

NOTES:

1. KP series custom-made is available upon request.
2. Luminous intensity value is traceable to CIE127-2007 standards.

TOP-EMITTING PLCC SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KA-3022CGSK-4.5SF	AlGaInP	570	water clear	40	80	120°	<p>3.0mm x 2.2mm x 1.5mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.25(0.01)$</p>
KA-3528SURCKT	AlGaInP	630	water clear	55	100	120°	<p>3.5mm x 2.8mm x 1.9mm</p> <p>Units : mm(inch) Tolerance : $\pm 0.25(0.01)$</p>
KA-3528SECKT	AlGaInP	601	water clear	120	230	120°	
KA-3528SYCKT	AlGaInP	590	water clear	120	250	120°	
KA-3528CGCKT	AlGaInP	570	water clear	40	100	120°	
KA-3528ZGCKT	InGaIn	525	water clear	300	500	120°	
KA-3528QBS-D	InGaIn	465	water clear	80	150	120°	
KA-3528VBS-D	InGaIn	470	water clear	300	450	120°	

SUBMINIATURE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KM2520EC03	GaAsP/GaP	617	water clear	20	50	20°	<p>Subminiature Solid State Lamps Gull Wing Lead</p> <p>Units : mm(inch) Tolerance : $\pm 0.25(0.01)$</p>
KM2520SURCK03	AlGaInP	630	water clear	500	1000	20°	
KM2520YC03	GaAsP/GaP	588	water clear	20	50	20°	
KM2520SYCK03	AlGaInP	590	water clear	1300	2300	20°	
KM2520SGC03	GaP	568	water clear	40	90	20°	
KM2520CGCK03	AlGaInP	570	water clear	400	800	20°	
KM2520ZGC03	InGaIn	525	water clear	2700	6000	20°	
KM2520QBC-D03	InGaIn	465	water clear	300	900	20°	

NOTE:
1. Luminous intensity value is traceable to CIE127-2007 standards.

SUBMINIATURE SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KM2520QBC-D08	InGaN	465	water clear	300	900	20°	<p>Subminiature Solid State Lamps Yoke Lead</p> <p>2.5(0.098)±0.1 1.1(0.043) 0.4(0.0157)±0.05 1 2 1.9(0.075) 0.5(0.02)±0.05 7.62(0.3)MAX. 0.13(0.005) TYP. 0.31(0.012) TYP. 0.61(0.024) TYP. 1.07(0.042) TYP. 2.8(0.11)±0.1 0.76(0.03)MAX. 0.6(0.024)±0.1 1.4(0.055)±0.1 0.6(0.024)±0.1 0.15(0.006)±0.02 RO.85 2(0.079)±0.1 Units : mm(inch) Tolerance : ±0.25(0.01)</p> <p>KM2520xxx08</p>
KM2520EC09	GaAsP/GaP	617	water clear	20	50	20°	<p>Subminiature Solid State Lamps Z-Bend Lead</p> <p>2.5[0.098]±0.1 1.1[0.043]±0.125 0.4[0.016]±0.05 1 2 1.9[0.075] 0.5[0.02]±0.05 4.3[0.169]±0.3 0.76[0.03] MAX. 2.8[0.11]±0.1 1.3[0.051]±0.1 0.6[0.024] 3.05[0.12]NOM. 5.8[0.228]±0.3 0.15[0.006]±0.02 1.4[0.055]±0.1 RO.85[0.033] 2[0.079]±0.1 Units : mm(inch) Tolerance : ±0.25(0.01)</p> <p>KM2520xxx09</p>
KM2520SURCK09	AlGaInP	630	water clear	500	1000	20°	
KM2520SECK09	AlGaInP	601	water clear	1000	1800	20°	
KM2520YC09	GaAsP/GaP	588	water clear	20	50	20°	
KM2520SYCK09	AlGaInP	590	water clear	1300	2300	20°	
KM2520SGC09	GaP	568	water clear	40	90	20°	
KM2520CGCK09	AlGaInP	570	water clear	400	800	20°	
KM2520ZGC09	InGaN	525	water clear	2700	6000	20°	
KM2520QBC-D09	InGaN	465	water clear	300	900	20°	

SOT-23 SMD LED

Part Number	Material	λ_D (nm)	Lens Type	Iv (mcd) @20mA		Viewing Angle 2 θ 1/2	Dimensions
				Min.	Typ.		
KM-23EC-F	GaAsP/GaP	617	water clear	3	5	170°	<p>SOT-23 Surface Mount LED Lamp (3mm x 1.3mm)</p> <p>2.1(0.083) 1.05(0.041) 0.1(0.004) 0.1MAX. 10°MAX. 10°MAX. 0.7(0.028) ±0.15 1.05(0.041)±0.15 3(0.118)±0.1-0.2 1.3(0.051)±0.1 2.4(0.094)±0.2 0.4(0.016) 1 2 3 1. ANODE 2. N.C 3. CATHODE Units : mm(inch) Tolerance : ±0.25(0.01)</p> <p>KM-23-F</p>
KM-23YC-F	GaAsP/GaP	588	water clear	3	8	170°	
KM-23SGC-F	GaP	568	water clear	5	10	170°	

NOTE:
1. Luminous intensity value is traceable to CIE127-2007 standards.

AMBIENT LIGHT SENSOR

Part Number

KPS-3227SP1C

Electrical And Radiant Characteristics (Ta =25°C, Unless Otherwise Specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector Emitter Breakdown Voltage	BV _{ceo}	60	-	-	V	I _{ceo} =100μA
Emitter Collector Breakdown Voltage	BV _{eco}	4	-	-	V	I _{eco} =100μA
Collector Dark Current	I _D	-	10	100	nA	V _{CE} =5V, E _V =0Lx
Light Current(1)	I _{PH1}	-	6	-	μA	V _{CE} =5V, E _V =100 Lx ^[1]
Light Current(2)	I _{PH2}	-	130	-	μA	V _{CE} =5V, E _V =1000 Lx ^[1]
Light Current(3)	I _{PH3}	-	950	-	μA	V _{CE} =5V, E _V =1000 Lx ^[2]
Light Current(4)	I _{PH4}	-	420	-	μA	V _{CE} =5V, E _V =1000 Lx ^[3]
Saturation Output Voltage	V _o	4.5	4.7	-	V	V _{CC} =5V, E _V =1000Lx ^[1] , R _L =75KΩ
Peak Wavelength	λ _P	-	580	-	nm	-
Response Wavelength	λ	390	-	700	nm	>10% Response
Collector Emitter Saturation Voltage	V _{CE(sat)}	-	-	0.4	V	I _c =10 mA

Notes:

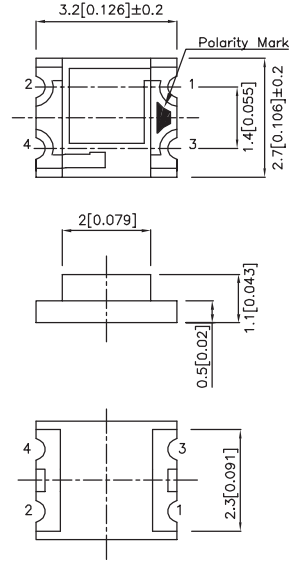
- 1.White Fluorescent light (Color Temperature = 6200K) is used as light source.
- 2.Illuminance by CIE standard illuminant-A/2856K, incandescet lamp.
- 3.Sunlight (Color Temperature = 4600K) is used as light source.

Dimensions

KPS-3227SP1C 3.2mm x 2.7mm x 1.1mm
(Ambient Light Sensor)



KPS-3227SP1C



Units : mm(inch)
Tolerance : ±0.1(0.004)

COLOR SENSOR

Part Number

KPS-5130PD7C

Electrical And Radiant Characteristics (Ta =25°C, Unless Otherwise Specified)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit	
Peak Sensitivity Wavelength	λ _P	Red	-	620	-	nm	
		Green	-	550	-		
		Blue	-	470	-		
Light Current (1)	I _{L1}	100Lux [1] VR =5V	Red	-	0.039	μA	
			Green	-	0.042		-
			Blue	-	0.022		-
Light Current (2)	I _{L2}	1000Lux [1] VR =5V	Red	-	0.427	μA	
			Green	-	0.498		-
			Blue	-	0.262		-
Diameter of the irradiation sensitive area	D		-	2.0	-	mm	
Irradiation sensitive area per element	A		-	0.85	-	mm ²	
Photo sensibility of the single color areas	S _{Max}	λ _R =620 nm	-	0.33	-	A/W	
		λ _G =550 nm	-	0.25			
		λ _B =470 nm	-	0.18			
Reverse Dark Current	I _D	VR =5V	-	-	10	nA	

Note:

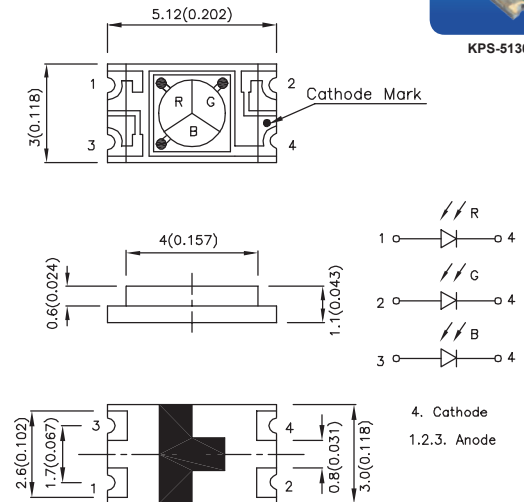
- 1.White fluorescent light (Color Temperature = 6500K) is used as light source.

Dimensions

KPS-5130PD7C 5.12mm x 3mm x 1.1mm
(RGB Color Sensor)



KPS-5130PD7C



Units : mm(inch)
Tolerance : ±0.25(0.01)