INDEX

SMD LED

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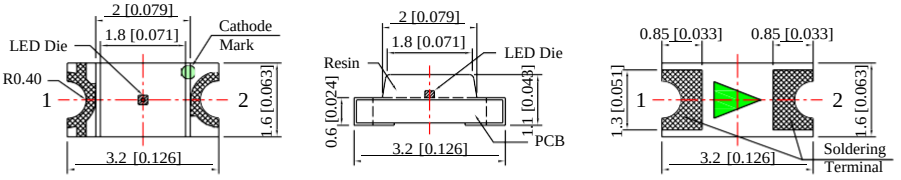
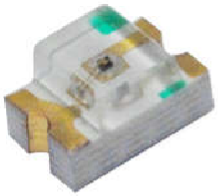
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

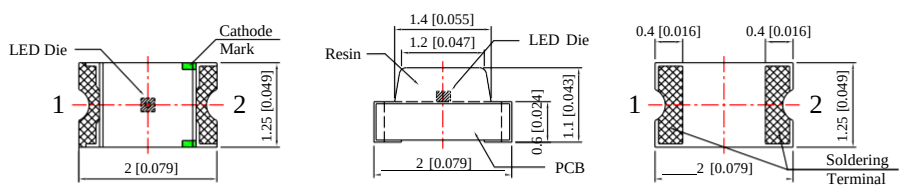
3.20mm×1.60mm×1.10mm (1206) Single Color Chip LED



ZF-S3216DRA	AlGaAs/GaAs	Deep Red	660	640	Water Clear	2.00	2.40	20	10	20	120
ZF-S3216RA	AlGaInP	Super Bright Red	632	624		2.00	2.40		80	115	
ZF-S3216OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		80	150	
ZF-S3216YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		100	150	
ZF-S3216YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		20	40	
ZF-S3216PGA	InGaN	Pure Green	520	525		3.20	3.60		300	600	
ZF-S3216BA	InGaN	Blue	468	470		3.20	3.60		90	150	

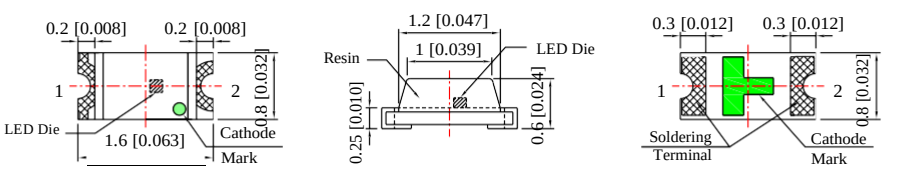
2.00mm×1.25mm×1.10mm (0805) Single Color Chip LED





ZF S2012RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	70	115	120
ZF S2012OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		100	150	
ZF S2012YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		80	120	
ZF S2012YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		20	40	
ZF S2012PGA	InGaN	Pure Green	520	525		3.20	3.60		300	600	
ZF S2012BA	InGaN	Blue	468	470		3.20	3.60		100	160	

1.60mm×0.80mm×0.60mm (0603) Single Color Chip LED

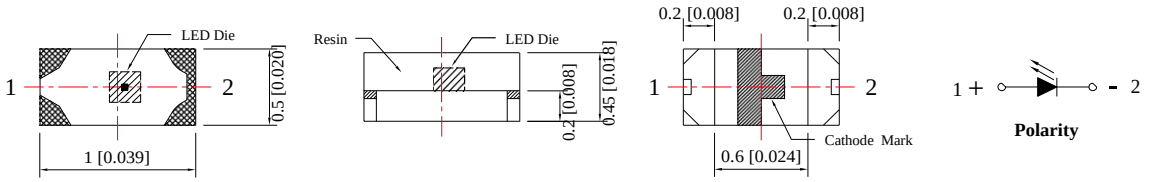


ZF-S1608RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	80	120	130
ZF-S1608OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		80	120	
ZF-S1608YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		80	120	
ZF-S1608YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		20	40	
ZF-S1608PGA	InGaN	Pure Green	520	525		3.20	3.60		500	850	
ZF-S1608BA	InGaN	Blue	468	470		3.20	3.60		130	200	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

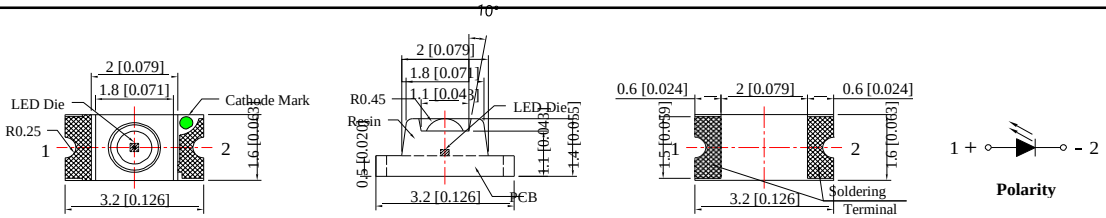
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

1.00mm×0.50mm×0.45mm Single Color Chip LED



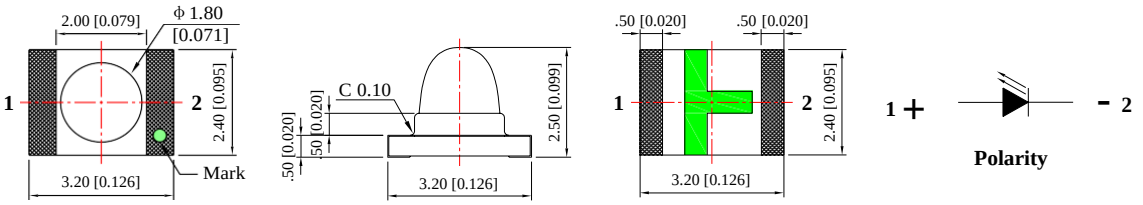
ZF-S1005RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	50	100	120
ZF-S1005OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		40	80	
ZF-S1005YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		50	100	
ZF-S1005YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		20	50	
ZF-S1005PGA	InGaN	Pure Green	520	525		3.20	3.60		150	250	
ZF-S1005BA	InGaN	Blue	468	470		3.20	3.60		40	80	

3.20mm×1.60mm×1.40mm With Inner Lens Single Color Chip LED(内凹球头)



ZF-S3216RAIL	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	200	400	60
ZF-S3216OAIL	AlGaInP	Super Bright Orange	610	605		2.00	2.40		250	500	
S3216YAILS	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		200	450	
ZF-S3216YGAIL	AlGaInP	Yellow Green	575	573		2.00	2.40		100	200	
ZF-S3216PGAIL	InGaN	Pure Green	520	525		3.20	3.60		750	1000	
ZF-S3216BAIL	InGaN	Blue	468	470		3.20	3.60		500	850	

3.2mm×2.40mm×2.50mm 1.80mm Round Subminiature Single Color Chip LED

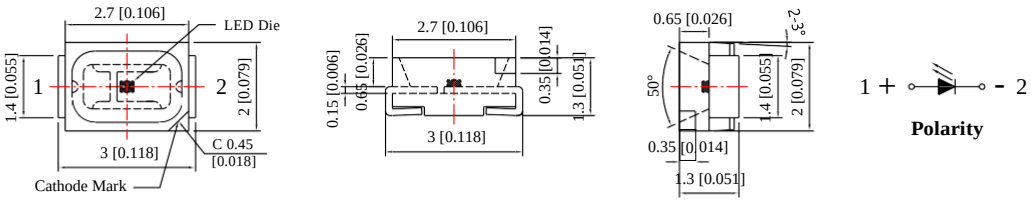


ZF-S3224RSRA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	1000	1500	20
ZF-S3224RSOA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		1000	1500	
ZF-S3224RSYA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		1000	1500	
ZF-S3224RSYGA	AlGaInP	Yellow Green	575	573		2.00	2.40		500	1000	
ZF-S3224RSPGA	InGaN	Pure Green	520	525		3.20	3.60		2000	4000	
ZF-S3224RSBA	InGaN	Blue	468	470		3.20	3.60		1000	1500	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

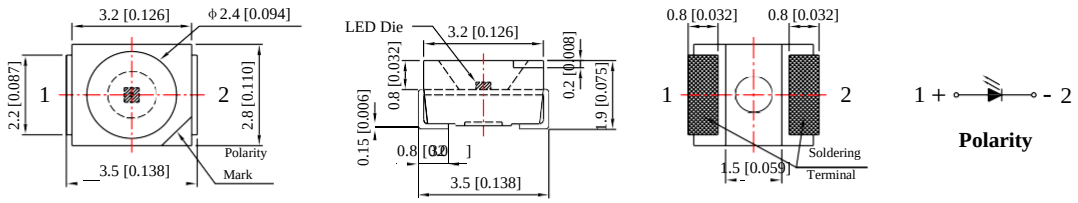
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd) / ΦV (lm)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

3.00mm×2.00mm×1.30mm PLCC-2 Top View Single Color LED



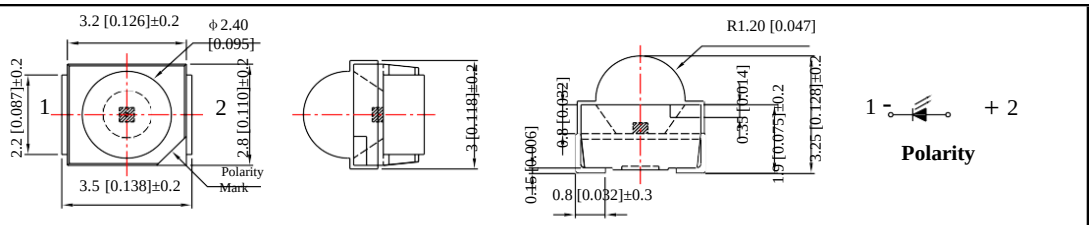
ZF-S3020RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	150	250	130
ZF-S3020OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		150	300	
ZF-S3020YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		150	250	
ZF-S3020YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		20	50	
ZF-S3020PGA	InGaN	Pure Green	520	525		3.20	3.60		750	1000	
ZF-S3020BA	InGaN	Blue	468	470		3.20	3.60		200	400	

3.50mm×2.80mm×1.90mm PLCC-2 Top View Single Color LED



ZF-S3528RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	150	250	120
ZF-S3528RA-H	AlGaInP	Super Bright Red	632	624		2.00	2.40		400	600	
ZF-S3528OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		100	200	
ZF-S3528YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		150	250	
ZF-S3528YA-H	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		400	600	
ZF-S3528YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		30	70	
ZF-S3528PGA	InGaN	Pure Green	520	525		3.20	3.60		800	1200	
ZF-S3528BA	InGaN	Blue	468	470		3.20	3.60		200	400	

3.50mm×2.80mm×3.25mm Top View Single Color LED With Lens

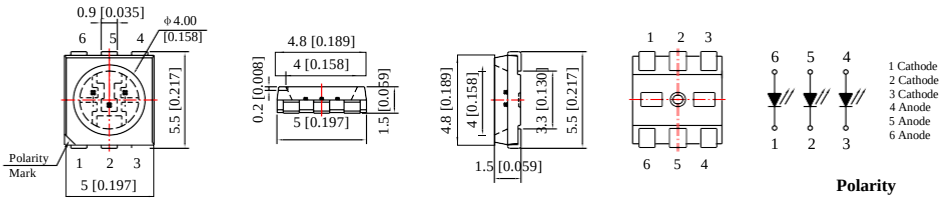


ZF-S3528LRA	AlGaInP	Super Bright Red	632	624	White Diffused	2.20	2.60	60	2000	3000	60
~~ZF-S3528LYA~~	~~AlGaInP~~	Super Bright Yellow	~~594~~	~~592~~		~~2.20~~	~~2.60~~		2000	~~3000~~	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

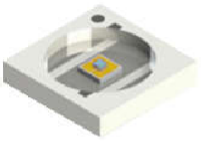
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd) / ΦV (lm) / Ee (mW/Sr)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

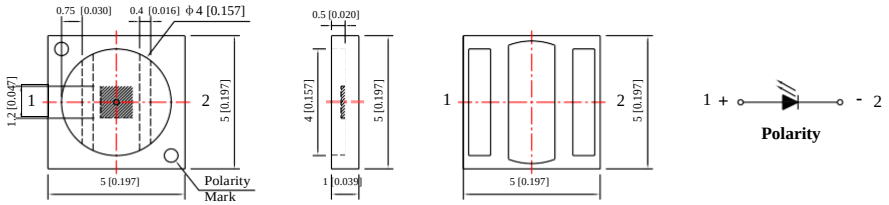
5.00mm×5.50mm×1.50mm PLCC-6 Top View Single Color LED



ZF-S5050RB	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20×3	400	600	120
ZF-S5050RB-H	AlGaInP	Super Bright Red	632	624		2.00	2.40		1200	1600	
ZF-S5050OB	AlGaInP	Super Bright Orange	610	605		2.00	2.40		400	600	
ZF-S5050YB	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		500	700	
ZF-S5050YB-H	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		1200	1600	
ZF-S5050YGB	AlGaInP	Yellow Green	575	573		2.00	2.40		200	350	
ZF-S5050PGB	InGaN	Pure Green	520	525		3.20	3.60		3500	4500	
ZF-S5050BB	InGaN	Blue	468	470		3.20	3.60		800	1200	

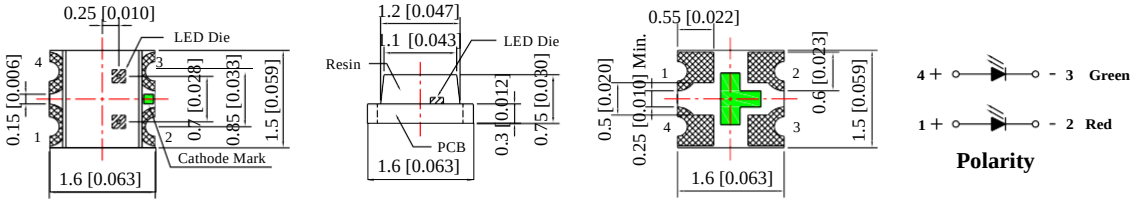
5.00mm×5.50mm×1.00mm PLCC-2 Top View Single Color LED





ZF-S5050UVCA-A	InGaN	Deep UV	265	/	Water Clear	7.00	8.50	20	0.20	0.60	120
ZF-S5050UVCA-B	InGaN	Deep UV	280	/		6.00	7.50		0.50	1.30	
ZF-S5050UVBA-C	InGaN	Deep UV	310	/		6.00	7.50		0.50	1.50	

1.60mm×1.50mm×0.75mm Bi-color Chip LED

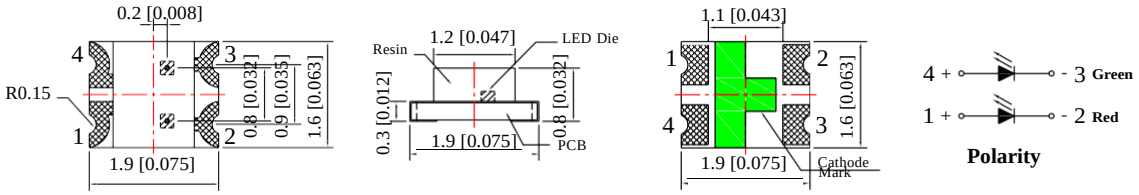


ZF-S1615DRYGA	AlGaAs/GaAs	Deep Red	660	640	Water Clear	2.00	2.40	20	20	35	140
	GaP/GaP	Yellow Green	565	570		2.00	2.40		10	20	
ZF-S1615RYGA	AlGaInP	Super Bright Red	632	624		2.00	2.40		70	110	
	AlGaInP	Yellow Green	575	573		2.00	2.40		25	40	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

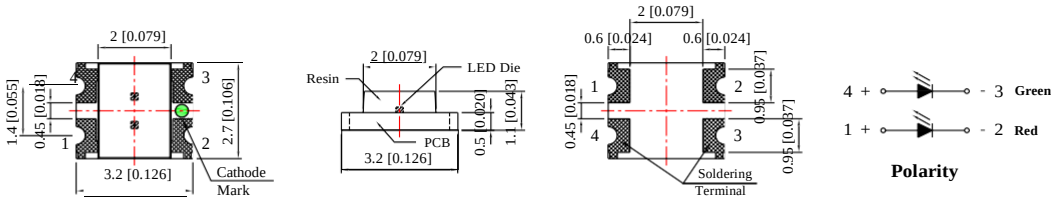
	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

1.90mm×1.60mm×0.80mm Bi-color Chip LED



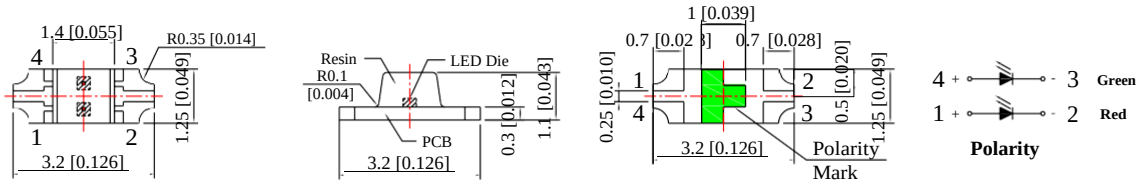
ZF-S1916RYGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	35	70	140
	AlGaInP	Yellow Green	575	573		2.00	2.40		25	60	

3.20mm×2.70mm×1.10mm Bi-color Chip LED



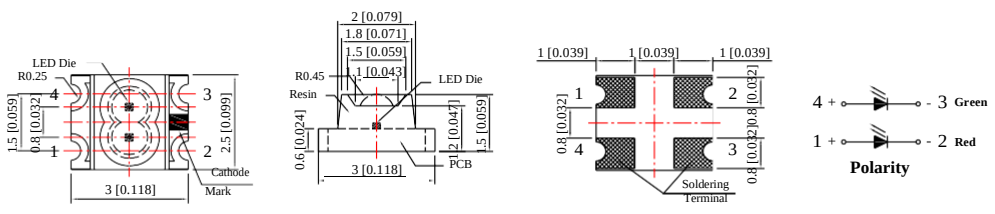
ZF-S3227DRYGA	AlGaAs/GaAs	Deep Red	660	640	Water Clear	2.00	2.40	20	10	20	120
	GaP/GaP	Yellow Green	565	570		2.00	2.40		10	20	
ZF-S3227RYGA	AlGaInP	Super Bright Red	632	624		2.00	2.40		80	120	
	AlGaInP	Yellow Green	575	573		2.00	2.40		35	70	

3.20mm×1.25mm×1.10mm Reverse Package Bi-color Chip LED



ZF-S3212RYGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	40	75	130
	AlGaInP	Yellow Green	575	573		2.00	2.40		20	55	

3.00mm×2.50mm×1.50mm With Inner Lens Bi-color Chip LED



ZF-S3025RYGAIL	@AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	100	200	60
	AlGaInP	Yellow Green	575	573		2.00	2.40		50	100	

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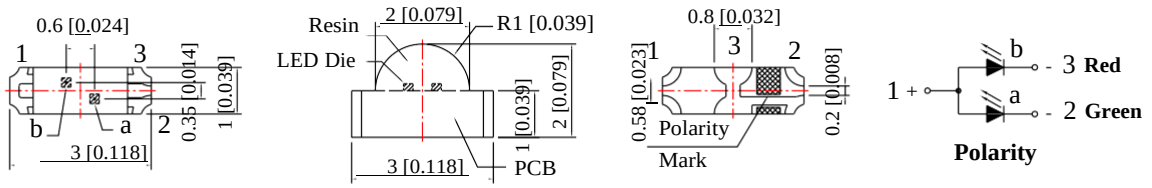
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

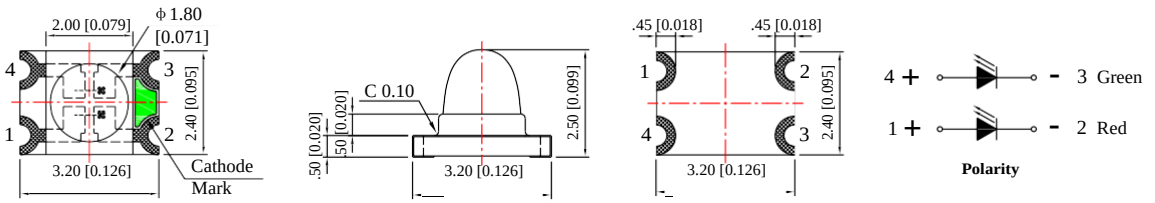
	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

3.00mm×1.00mm×2.00mm With Right Angle Lens Bi-color Chip LED



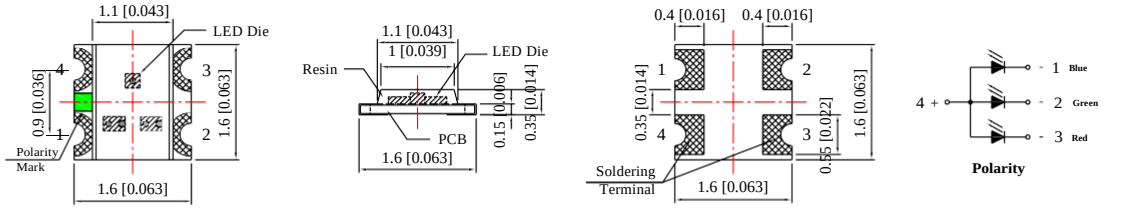
ZF-S3010RYGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	40	80	120
	AlGaInP	Yellow Green	575	573		2.00	2.40		30	50	

3.20mm×2.40mm×2.50mm 1.80mm Round Subminiature Bi-color Chip LED



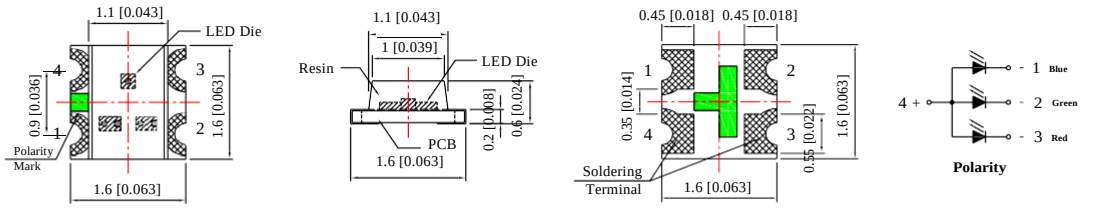
ZF-S3224DRYGA-R	AlGaAs/GaAs	Deep Red	660	640	Water Clear	2.00	2.40	20	50	80	30
	GaP/GaP	Yellow Green	565	570		2.00	2.40		25	50	
ZF-S3224RYGA-R	AlGaInP	Super Bright Red	632	624		2.00	2.40		80	150	
	AlGaInP	Yellow Green	575	573		2.00	2.40		20	40	

1.60mm×1.60mm×0.35mm (0606) Multi-Color Chip LED



ZF-S1616RGBGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	60	100	120
	InGaN	Pure Green	520	525		3.20	3.60		150	200	
	InGaN	Blue	468	470		3.20	3.60		35	70	

1.60mm×1.50mm×0.60mm (0606) Multi-Color Chip LED

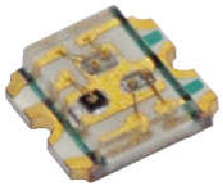


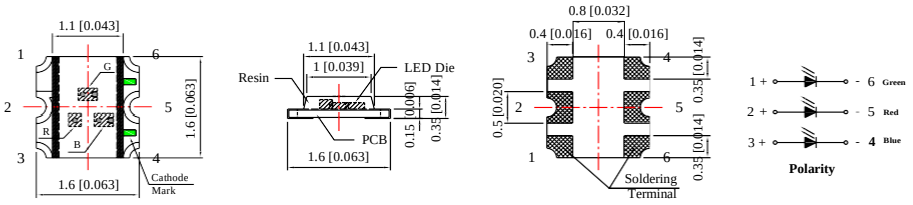
ZF-S1615RGBAGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	80	120	120
	InGaN	Pure Green	520	525		3.20	3.60		250	400	
	InGaN	Blue	468	470		3.20	3.60		80	120	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

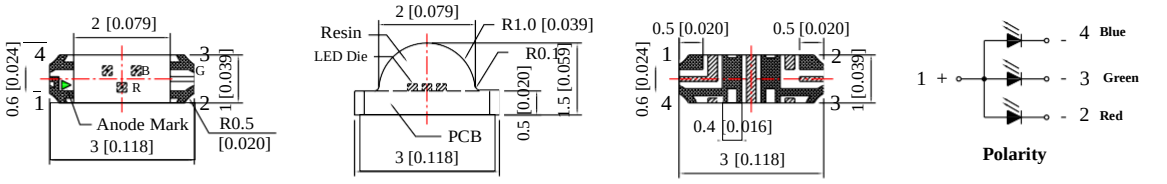
1.60mm×1.60mm×0.35mm (0606) Multi-Color Chip LED





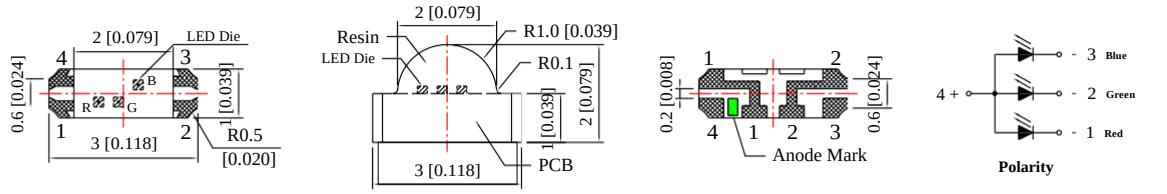
ZF-S1616RGBAGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	60	100	120
	InGaN	Pure Green	520	525		3.20	3.60		150	400	
	InGaN	Blue	468	470		3.20	3.60		35	70	

3.00mm×1.00mm×1.50mm (1204) With Right Lens Multi-Color Chip LED



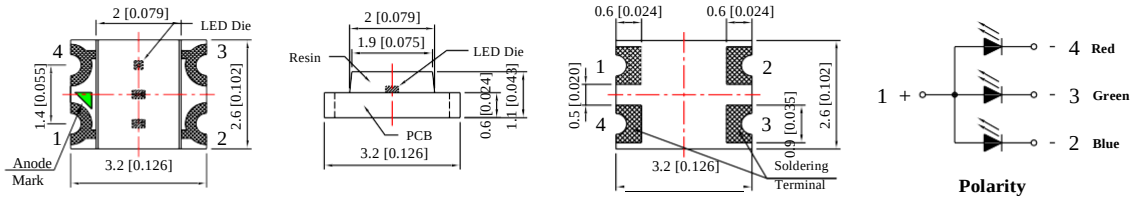
ZF-S3010RGBAGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	80	120	100
	InGaN	Pure Green	520	525		3.20	3.60		200	350	
	InGaN	Blue	468	470		3.20	3.60		50	100	

3.00mm×1.00mm×2.00mm (1204) With Right Lens Multi-Color Chip LED



ZF-S3010RGBAGA-A	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	80	120	120
	InGaN	Pure Green	520	525		3.20	3.60		200	350	
	InGaN	Blue	468	470		3.20	3.60		40	80	

3.20mm×2.60mm×1.10mm (1210) Multi-Color Chip LED

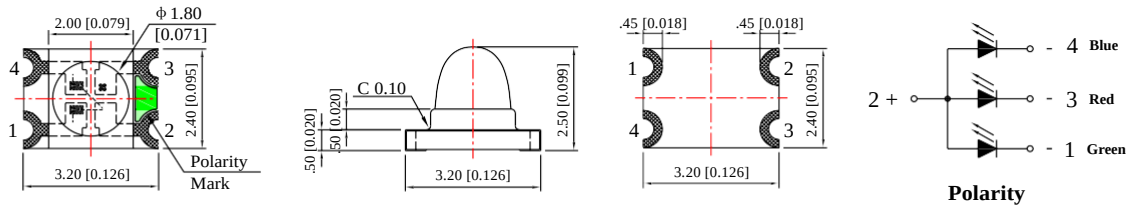


ZF-S3226RGBAGA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	80	120	120
	InGaN	Pure Green	520	525		3.20	3.60		200	300	
	InGaN	Blue	468	470		3.20	3.60		80	120	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

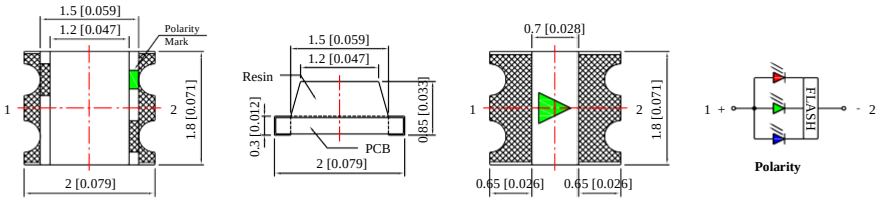
	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

3.20mm×2.40mm×2.50mm (1210) 1.80mm Round Subminiature Multi-color Chip LED



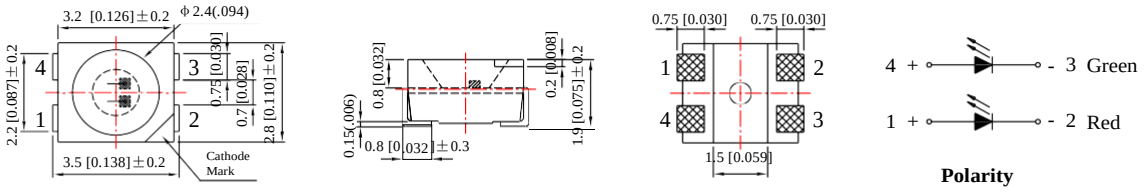
ZF-S3224RGBAGA-R	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	30	60	60
	InGaN	Pure Green	520	525		3.20	3.60		150	300	
	InGaN	Blue	468	470		3.20	3.60		25	50	

2.00mm×1.80mm×0.85mm (0807) Multi-Color Blinking Chip LED



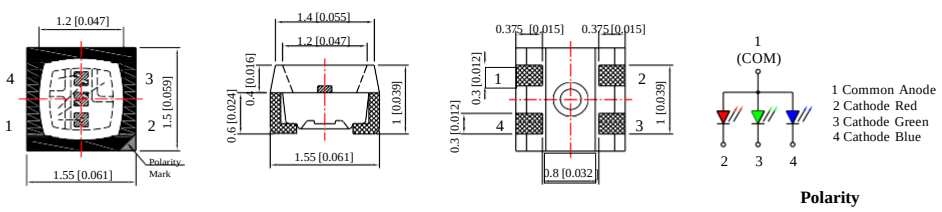
ZF-S2018RGBICGA	AlGaInP	Super Bright Red	632	624	Water Clear	3.00	3.50	20	80	150	120
	InGaN	Pure Green	520	525					250	500	
	InGaN	Blue	468	470					150	200	

3.50mm×2.80mm×1.90mm PLCC-4 Top View Bi-Color LED



ZF-S3528RYGA-4	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	100	200	120
	AlGaInP	Yellow Green	575	573		2.00	2.40		30	70	

1.5mm×1.50mm×1.00mm PLCC-4 Top View Multi-Color LED

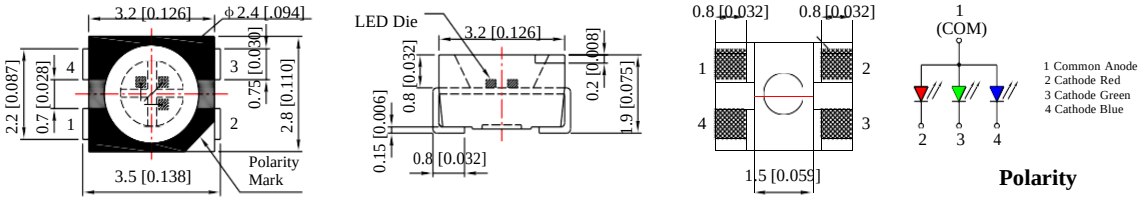


ZF-S1515RGBAGA-4	AlGaInP	Super Bright Red	632	624	White Diffused	2.00	2.40	8	28	44	120
	InGaN	Pure Green	520	525		3.00	3.40	5	95	160	
	InGaN	Blue	468	470		3.00	3.40	3	10	20	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

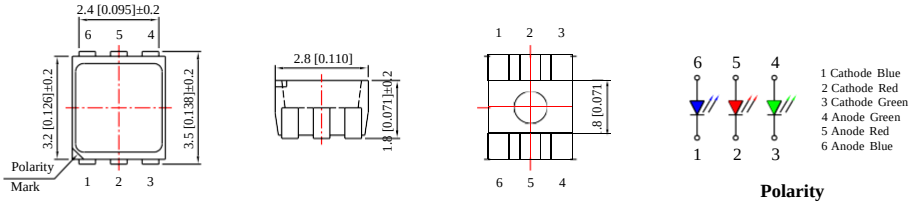
Part	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

3.50mm×2.80mm×1.90mm PLCC-4 Top View Multi-Color LED



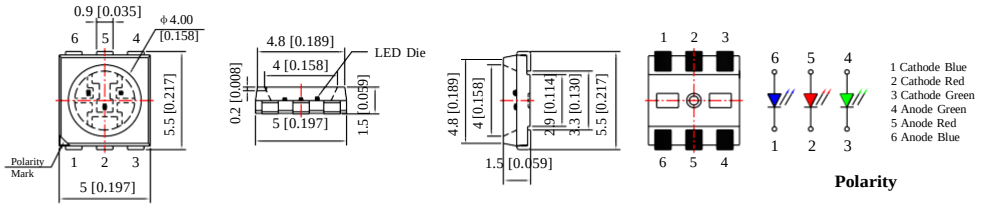
ZF-S3528RGBAGA-4	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	200	400	120
	InGaN	Pure Green	520	525		3.20	3.60		800	1200	
	InGaN	Blue	468	470		3.20	3.60		150	300	

3.5mm×2.80mm×1.80mm PLCC-6 Top View Multi-Color LED



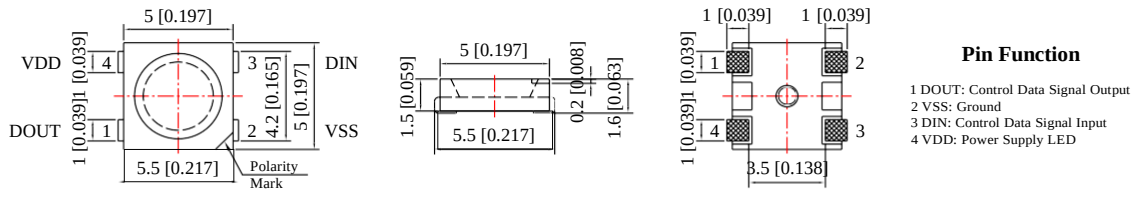
ZF-S3528RGBA-6	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	400	600	120
	InGaN	Pure Green	520	525		3.20	3.60		1200	1500	
	InGaN	Blue	468	470		3.20	3.60		400	550	

5.0mm×5.50mm×1.50mm PLCC-6 Top View Multi-Color LED



ZF-S5050RGBA-6	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	450	600	120
	InGaN	Pure Green	520	525		3.20	3.60		800	1250	
	InGaN	Blue	468	470		3.20	3.60		200	350	

5.50mm×5.00mm×1.50mm PLCC-4 Top View Multi-Color Intelligent Control LED

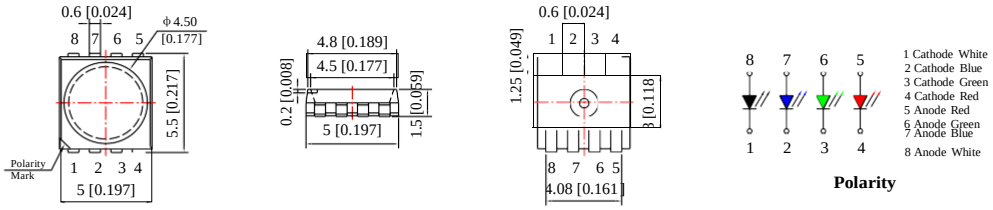


ZF-S5050RGBGA-4	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	250	500	120
	InGaN	Pure Green	520	525		3.20	3.40		500	1000	
	InGaN	Blue	468	470		3.20	3.40		150	250	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

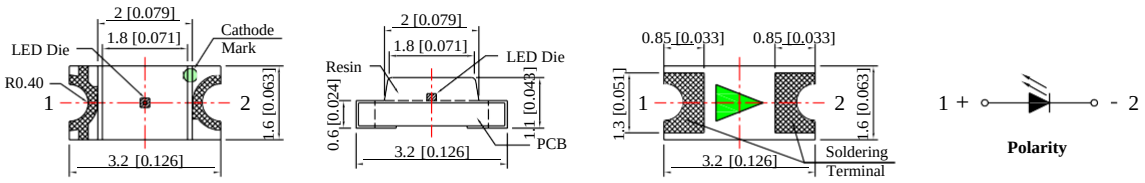
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd) / ΦV (lm)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

5.00mm×5.50mm×1.50mm PLCC-8 Top View Multi-Color LED



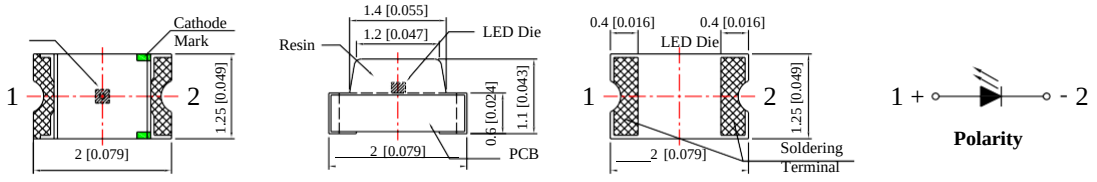
ZF-S5050RGBW-8	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	300	500	120
	InGaN	Pure Green	520	525		3.20	3.40		1500	2200	
	InGaN	Blue	468	470		3.20	3.40		250	450	
	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.40		9 lm	10 lm	

3.20mm×1.60mm×1.10mm (1206) Single Color Chip LED



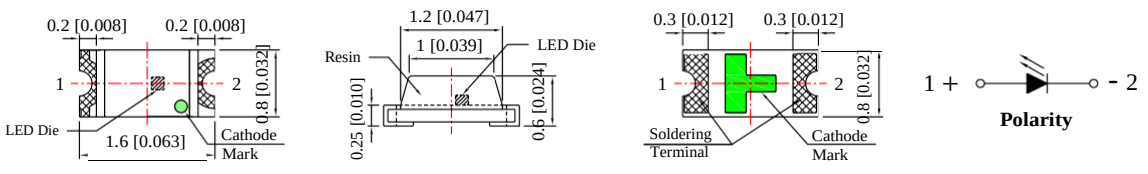
ZF-S3216WA-D	InGaN	Cool White	x=0.27	y=0.28	Yellow Diffused	3.20	3.60	20	700	1100	120
ZF-S3216WA-A	InGaN	Warm White	x=0.43	y=0.40		3.20	3.60		500	900	

2.00mm×1.25mm×1.10mm (0805) Single Color Chip LED



ZF-S2012WA-D	InGaN	Cool White	x=0.30	y=0.30	Yellow Diffused	3.20	3.60	20	400	600	120

1.60mm×0.80mm×0.60mm (0603) Single Color Chip LED

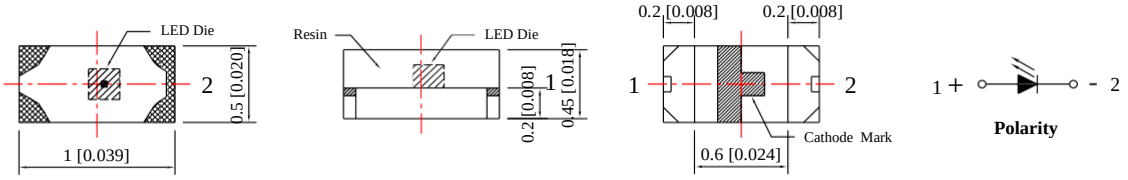


ZF-S1608WA-D	InGaN	Cool White	x=0.27	y=0.27	Yellow Diffused	3.20	3.60	20	400	650	120

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

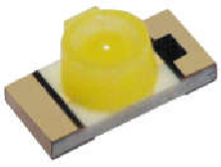
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

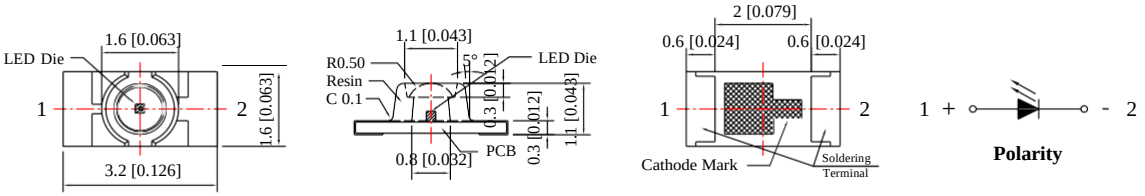
1.00mm×0.50mm×0.45mm Single Color Chip LED



ZF-S1005WA-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	150	250	120

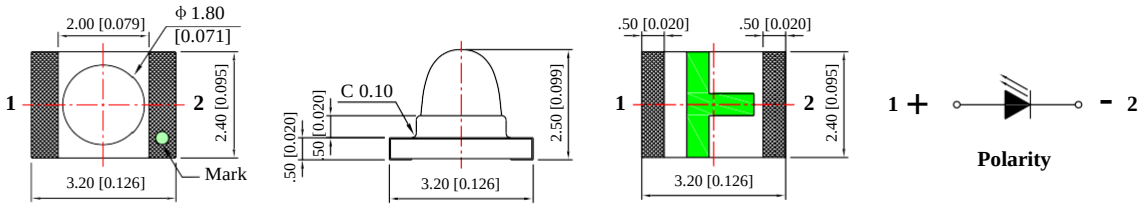
3.20mm×1.60mm×1.10mm With Inner Lens Single Color Chip LED





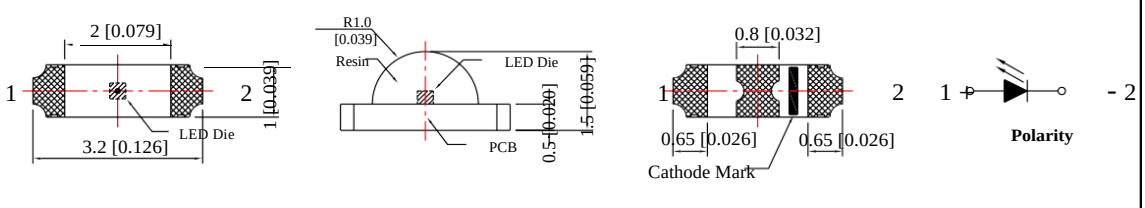
ZF-S3216ILWAIL-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	200	450	120

3.20mm×2.40mm×2.50mm 1.80mm Round Subminiature Single Color Chip LED



ZF-S3224RWA-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	150	250	160

3.20mm×1.00mm×1.50mm With Right Lens Single Color Chip LED

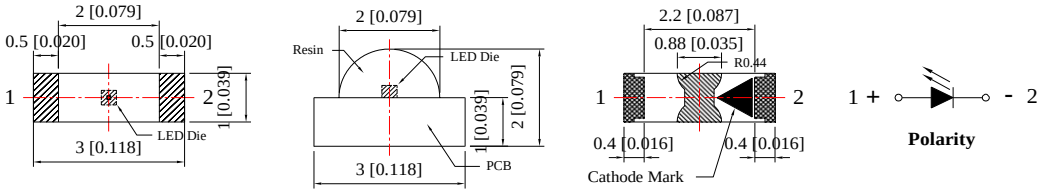


ZF-S3210WA-D	InGaN	Cool White	x=0.30	y=0.30	Yellow Diffused	3.20	3.60	20	500	800	120

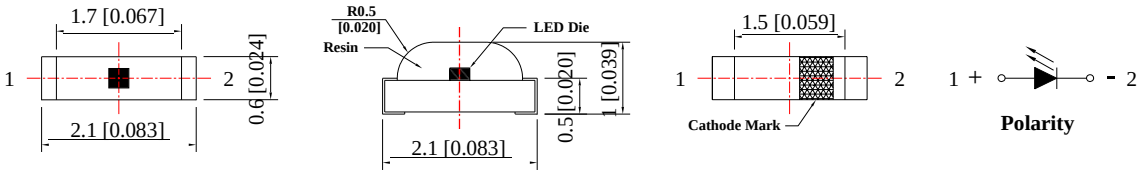
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

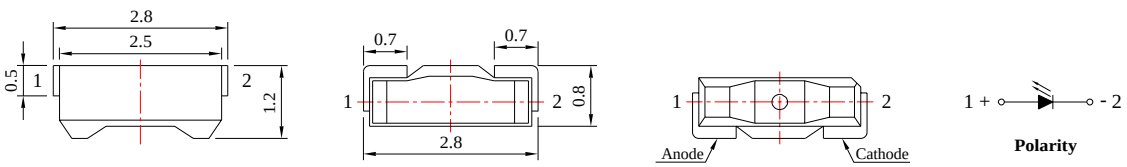
3.00mm×1.00mm×2.00mm With Right Lens Single Color Chip LED

											
ZF-S3010WA-D -	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	80	150	120

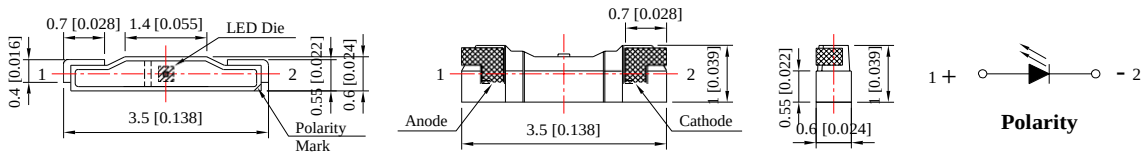
2.10mm×0.60mm×1.00mm With Right Lens Single Color Chip LED

											
ZF-S2106WA-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	80	150	130

2.80mm×1.20mm×0.80mm PLCC-2 Side View Single Color LED

											
ZF-S2812WA-D	InGaN	Cool White	x=0.30	y=0.30	Yellow Diffused	3.20	3.60	20	1200	1600	120

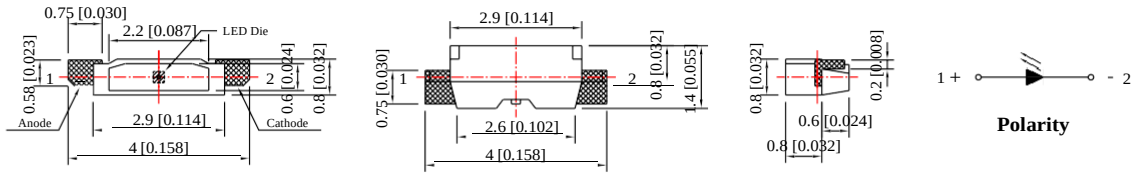
3.5mm×1.20mm×0.60mm PLCC-2 Side View Single Color LED

											
ZF-S3512WA-D	InGaN	Cool White	x=0.27	y=0.27	Yellow Diffused	3.20	3.60	20	2300	3200	120

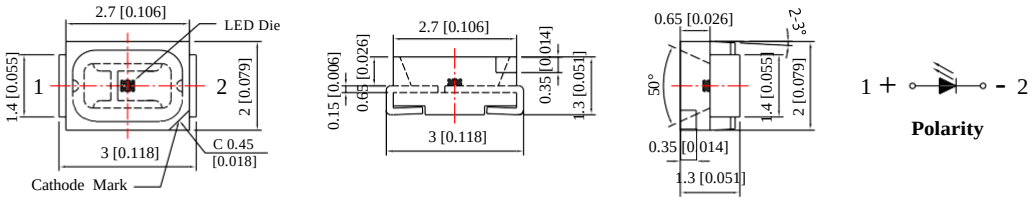
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

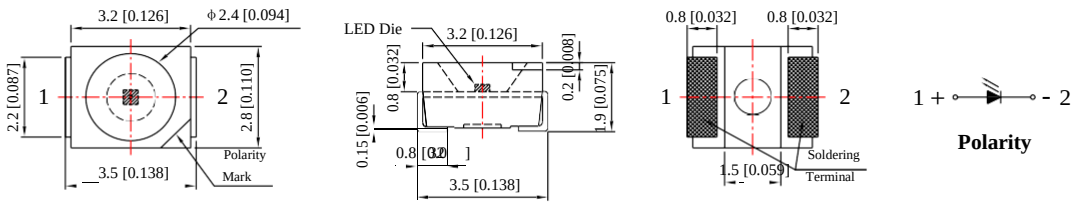
4.00mm×1.40mm×0.80mm PLCC-2 Side View Single Color LED

										
ZF-S4014WA-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	1000	1800	120

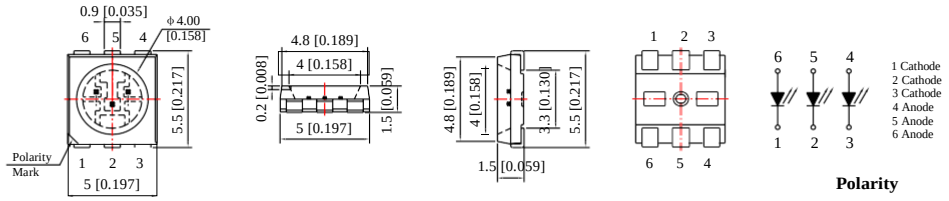
3.00mm×2.00mm×1.30mm PLCC-2 Top View Single Color LED

										
ZF-S3020WA-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	1800	2300	130
ZF-S3020WA-A	InGaN	Warm White	x=0.43	y=0.40		3.20	3.60		1800	2100	

3.50mm×2.80mm×1.90mm PLCC-2 Top View Single Color LED

										
ZF-S3528WA-D	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20	2000	2500	120
ZF-S3528WA-A	InGaN	Warm White	x=0.43	y=0.40		3.20	3.60		2000	2300	

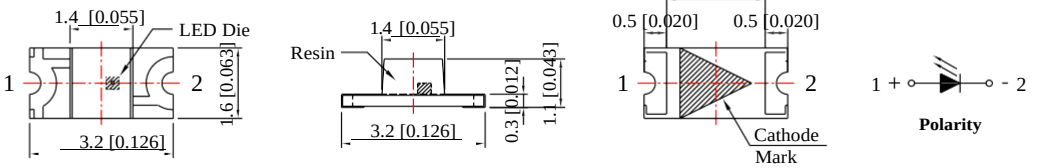
5.00mm×5.50mm×1.50mm PLCC-6 Top View Single Color LED

										
ZF-S5050WA-D-6	InGaN	Cool White	x=0.31	y=0.32	Yellow Diffused	3.20	3.60	20×3	5800	6500	120
ZF-S5050WA-A-6	InGaN	Warm White	x=0.43	y=0.40		3.20	3.60		5800	6300	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

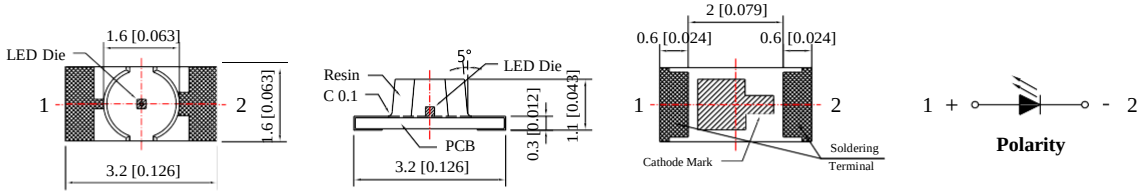
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

3.20mm×1.60mm×1.10mm Reverse Package Single Color Chip LED



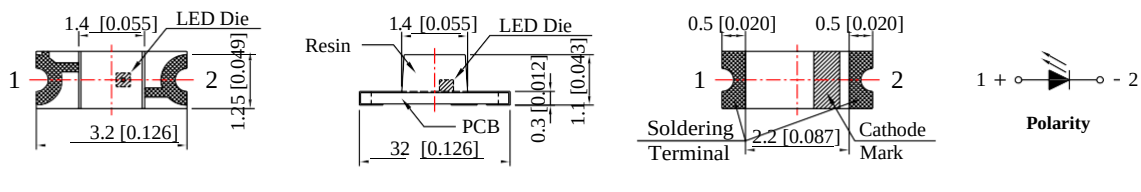
ZF-S3216RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	25	60	130
ZF-S3216YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		25	60	
ZF-S3216YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		15	30	
ZF-S3216PGA	InGaN	Pure Green	520	525		3.20	3.60		100	250	
ZF-S3216BA	InGaN	Blue	468	470		3.20	3.60		25	50	

3.20mm×1.60mm×1.10mm Reverse Package Single Color Chip LED



ZF-S3216RAC	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	25	60	130
ZF-S3216YAC	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		25	60	
ZF-S3216YGAC	AlGaInP	Yellow Green	575	573		2.00	2.40		15	30	
ZF-S3216PGAC	InGaN	Pure Green	520	525		3.20	3.60		100	250	
ZF-S3216BAC	InGaN	Blue	468	470		3.20	3.60		25	50	

3.20mm×1.25mm×1.10mm Reverse Package Single Color Chip LED

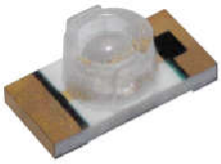


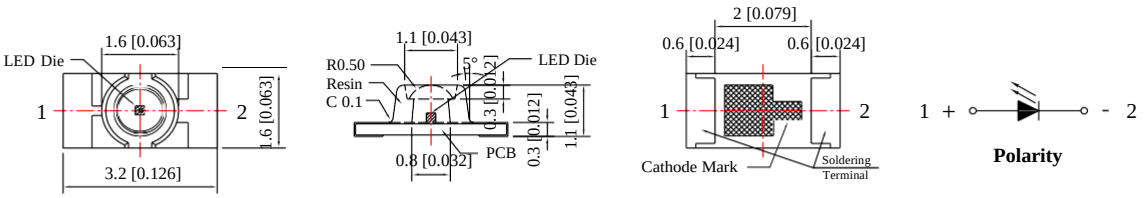
ZF-S3212RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	25	60	130
ZF-S3212YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		25	60	
ZF-S3212TGA	AlGaInP	Yellow Green	575	573		2.00	2.40		15	30	
ZF-S3212PGA	InGaN	Pure Green	520	525		3.20	3.60		100	250	
ZF-S3212BA	InGaN	Blue	468	470		3.20	3.60		25	50	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

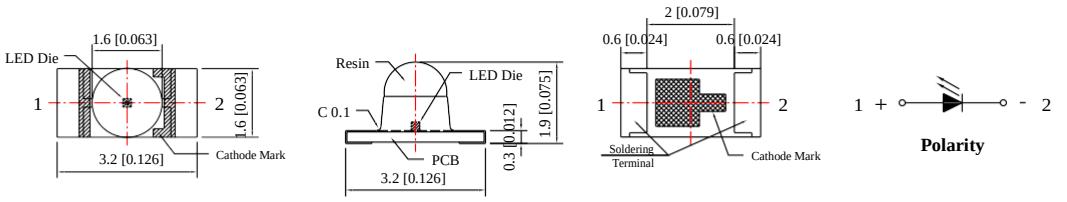
3.20mm×1.60mm×1.10mm With Inner Lens Single Color Chip LED





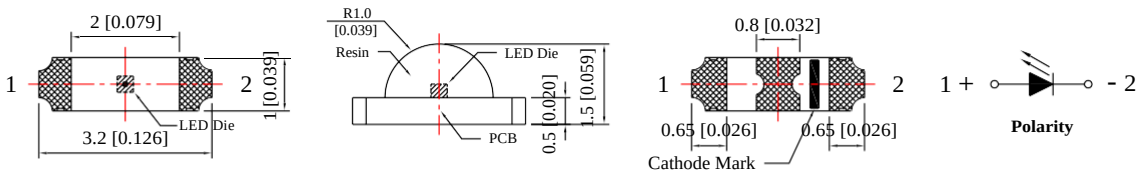
ZF-S3216RAIL	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	100	200	60
ZF-S3216YAIL	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		100	200	
ZF-S3216YGAIL	AlGaInP	Yellow Green	575	573		2.00	2.40		40	80	
ZF-S3216PGAIL	InGaN	Pure Green	520	525		3.20	3.60		300	600	
ZF-S3216BAIL	InGaN	Blue	468	470		3.20	3.60		80	120	

3.20mm×1.60mm×1.90mm 1.60mm Round Subminiature Reverse Package Single Color Chip LED



ZF-3216RAR	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	400	650	30
ZF-3216OAR	AlGaInP	Super Bright Orange	610	605		2.00	2.40		750	1000	
ZF-3216YAR	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		350	700	
ZF-3216YGAR	AlGaInP	Yellow Green	575	573		2.00	2.40		250	350	
ZF-3216PGAR	InGaN	Pure Green	520	525		3.20	3.60		1000	1500	
ZF-3216BAR	InGaN	Blue	468	470		3.20	3.60		500	750	

3.20mm×1.00mm×1.50mm With Right Lens Single Color Chip LED



ZF-S3210RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	100	150	120
ZF-S3210YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		100	150	
ZF-S3210YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		20	45	
ZF-S3210PGA	InGaN	Pure Green	520	525		3.20	3.60		300	600	
ZF-S3210BA	InGaN	Blue	468	470		3.20	3.60		80	120	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
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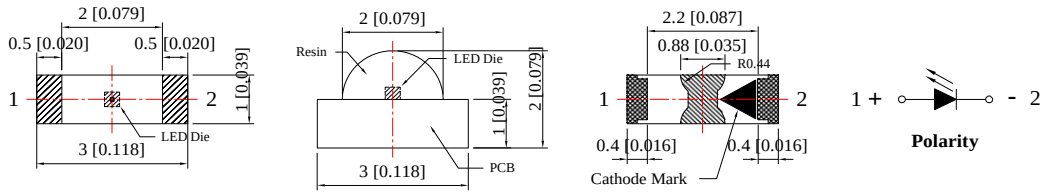
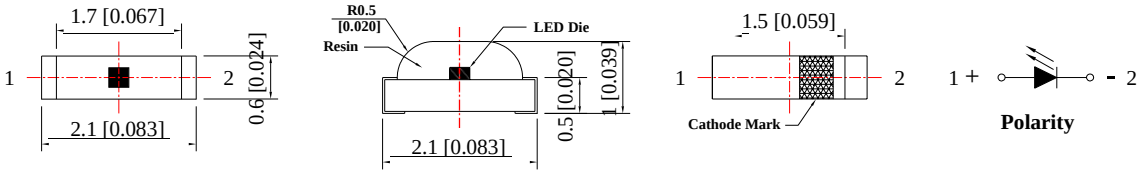
Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

3.00mm×1.00mm×2.00mm With Right Lens Single Color Chip LED



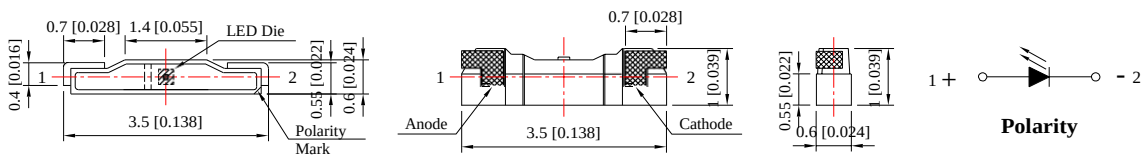
ZF- S3010RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	50	100	120
ZF-S3010OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		90	150	
ZF-S3010YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		60	120	
ZF-S3010YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		25	40	
ZF-S3010PGA	InGaN	Pure Green	520	525		3.20	3.60		100	250	
ZF-S3010BA	InGaN	Blue	468	470		3.20	3.60		40	80	

2.10mm×0.60mm×1.00mm With Right Lens Single Color Chip LED



ZF-S2106RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	35	60	130
ZFS2106YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		35	60	
ZF-S2106YGA	AlGaInP	Yellow Green	575	573		2.00	2.40		15	30	
ZF-S2106PGA	InGaN	Pure Green	520	525		3.20	3.60		100	150	
ZF-S2106BA	InGaN	Blue	468	470		3.20	3.60		25	40	

3.80mm×1.20mm×0.60mm PLCC-2 Side View Single Color LED

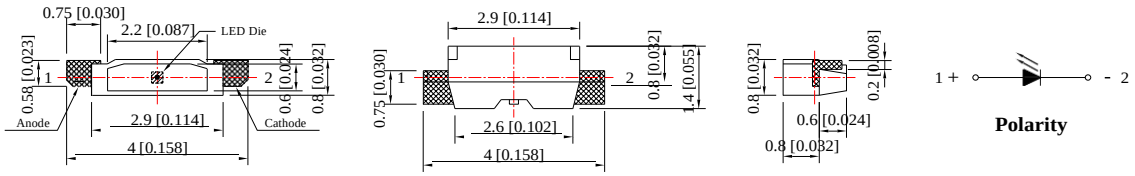


ZF-3812RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	300	500	120
ZF-3812YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		400	550	
ZF-3812PGA	InGaN	Pure Green	520	525		3.20	3.60		700	1000	
ZF-3812BA	InGaN	Blue	468	470		3.20	3.60		200	450	

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.

Part Number	Chip Material	Emitting Color	λp (nm) / x	λd (nm) / y	Lens Color	VF (V)		IV (mcd)			Viewing Angle
						Typ.	Max.	IF=mA	Min.	Typ.	2θ ½

4.00mm×1.40mm×0.80mm PLCC-2 Side View Single Color LED



ZF-S4014RA	AlGaInP	Super Bright Red	632	624	Water Clear	2.00	2.40	20	300	500	120
ZF-S4014OA	AlGaInP	Super Bright Orange	610	605		2.00	2.40		150	250	
ZF-S4014YA	AlGaInP	Super Bright Yellow	592	590		2.00	2.40		400	550	
ZF-S4014YGA	AlGaInP	Yellow Green	573	571		2.00	2.40		40	70	
ZF-S4014PGA	InGaN	Pure Green	520	525		3.20	3.60		900	1300	
ZF-S4014BA	InGaN	Blue	468	470		3.20	3.60		150	300	

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2. Tolerance is ±0.10mm (.004") unless otherwise noted.
3. Specifications are subject to change without notice.