



GUARANTEED TO SHINE



AI

+

Healthcare
ClimateTech
Automation

Infinite Design Possibilities ∞

Bi-Color Red / Infrared SMD

Red, IR and Bi-Color SMD

Bi-Color
(Red/IR)

Red/IR



Red & IR Option



MSL: 3



Water Clear Lens



IF: 20mA



Wide and Narrow
Viewing Angle



Optimized
Wavelengths

Part Number	Fig	λ_{Peak} (nm)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZM2MRTNI45SC2C	1	660	228	20	120°
		940	2.3mW/sr		
XZM2MRTNI55W-8	2	660	397	20	30°
		940	1.3mW/sr		
XZM2MRTNI59W-1	3	660	198	20	150°
		940	2.8mW/sr		

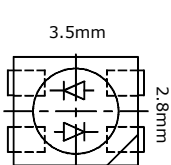


Fig.1

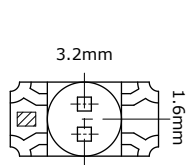


Fig.2

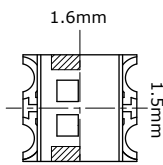


Fig.3

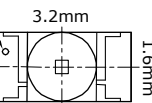


Fig.1

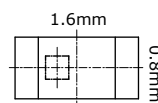


Fig.2

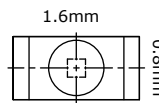


Fig.3

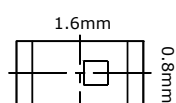


Fig.4

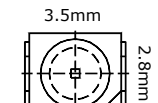


Fig.5

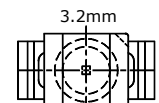


Fig.6



Robot-Assisted Surgery



Respiratory Care

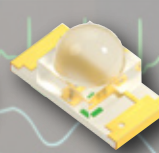


Health Monitoring

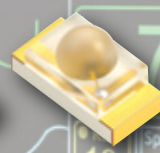
Heart Rate Sensor Series



XZM2DG45WT



XZM2DG53W-3



XZM2DG53W-8



IF: 20mA



Wavelength
520nm

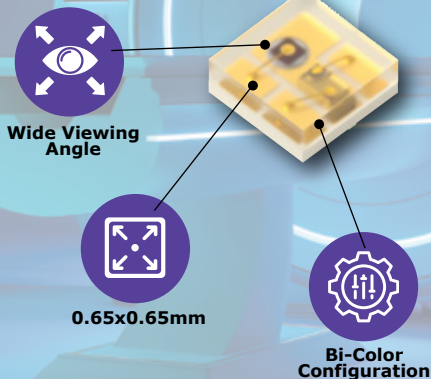


Industry Standard
Footprints

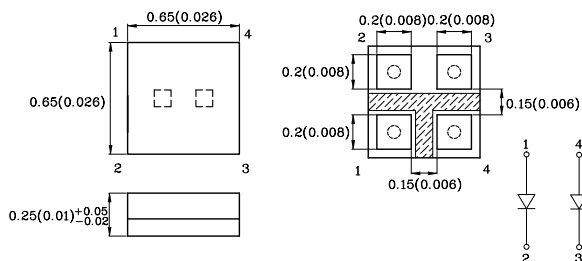
Part Number	Fig	λ_{Peak} (nm)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZM2DG55W-3	1	520	5990	20	30°
XZM2DG53W-1	2	520	795	20	130°
XZM2DG53W-8	3	520	1495	20	60°
XZM2DG53W-6	4	520	995	20	130°
XZM2DG45WT	5	520	1395	20	120°
XZM2DG45WT-9	6	520	1395	20	120°

Smallest Bi-Color SMD

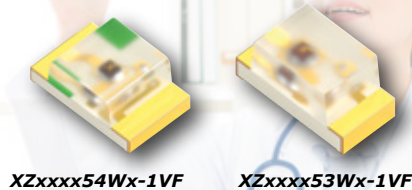
XZxxxx172W Series



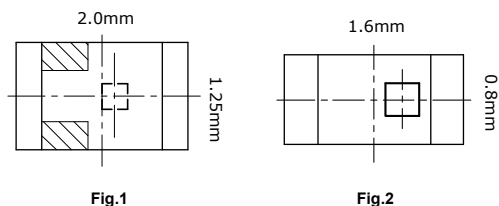
Part Number	λ_{Peak} (nm)	Min. (mcd)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZDGMERKK172W	515	50	198	5	140°
	632	6	24		
XZFBADG172W	463	10	39	5	140°
	515	50	198		
XZFBAMERKK172W	463	10	39	5	140°
	632	6	24		
XZFBAMYRK172W	463	10	39	5	140°
	591	4	19		
XZFWADG172F	$\diamond x=0.31$ $y=0.31$	30	164	5	140°
	515	50	198		
XZFWAMERKK172F	$\diamond x=0.31$ $y=0.31$	30	164	5	140°
	632	6	24		
XZFWAMYRK172F	$\diamond x=0.31$ $y=0.31$	30	164	5	140°
	591	4	19		



Ultra Low Current Series



Part Number	Fig	λ_{Peak} (nm)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZCM2CYK54WA-1VF	1	590	24	2	140°
XZCM2CRK54WA-1VF	1	640	39	2	140°
XZCM2CYK53WA-1VF	2	590	24	2	120°
XZCM2CRK53WA-1VF	2	640	39	2	120°
XZCFBB54W-1VF	1	465	23	2	140°
XZCDGK54W-1VF	1	515	98	2	140°
XZCFBB53W-1VF	2	465	23	2	130°
XZCDGK53W-1VF	2	515	98	2	130°



1206 Bi-Color SMD

XZxx55W-8 Series



Dome Lens



3.2x1.6mm

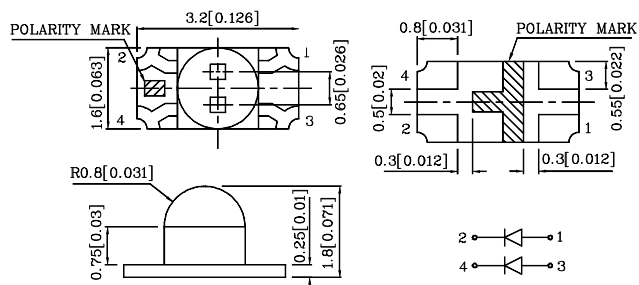


Bi-Color Configuration



MSL: 3

Part Number	λ Peak (nm)	Min. (mcd)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZM2CRKM2DG55W-8	640	700	1295	20	30°
	520	700	1295		
XZM2CRKCYK55W-8	640	700	1295	20	30°
	590	400	695		
XZM2CRKFBB55W-8	640	700	1295	20	30°
	465	120	278		
XZMDKVG55W-8	645	300	597	20	30°
	574	120	248		
XZMYKVG55W-8	590	300	597	20	30°
	574	120	248		



Single Level CBI SMD

Compact One Series



Surface Mountable



Bi-Color Configuration

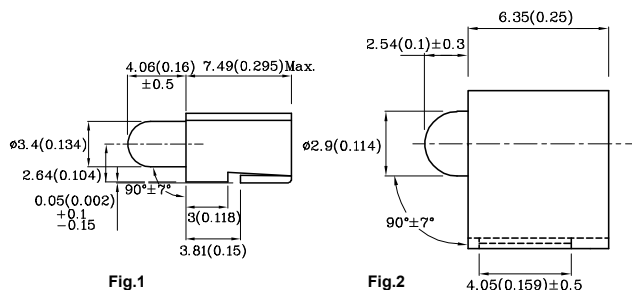


2.9mm and 3.4mm Options



Housing UL Rating: 94 V-0

Part Number	Fig	λ Peak (nm)	Typ. (mcd)	I_F (mA)	Viewing Angle
XPJ1LMDK41D	1	645	297	20	40°
XPJ1CMDKVG41M	1	645	14	2	70°
		574	5		
XNK1LUG11DSMD	2	565	24	10	50°
XNK1LUY11DSMD	2	590	14	10	50°





High Temperature Series



Robust



Multiple Package Options Available



RGB Option



Wide Viewing Angle

Part Number	Fig	λ_{Peak} (nm)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZDGK55W10MAV-3HTA	1	515	2200	10	30°
XZMDK55W-3HTA	1	645	800	20	40°
XZYG45WT-9HTA	2	560	34	20	120°
XZMDKMYKX56W-HTA	3	645	128	20	150°
		590	260		
XZMDKVG59W-1HTA	4	645	80	20	150°
		574	70		
XZMDKVGX56W-HTA	3	645	128	20	150°
		574	50		
XZMECBDDG45SHTA	2	640	260	20	120°
		465	128		
		520	700		
XZMYKVG59W-1HTA	4	590	190	20	150°
		574	140		

Reverse Mount SMD

XZxxxx45x-9 Series



Robust



Wide Viewing Angle



Gull Wing

Part Number	λ_{Peak} (nm)	Min. (mcd)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZMDKVG45WT-9	645	55	98	20	120°
	574	40	79		
XZMYKVG45WT-9	590	120	238	20	120°
	574	40	79		
XZFB45S-9	465	300	447	20	120°
XZMDK45WT-9	645	55	98	20	120°
XZMYK45WT-9	590	120	248	20	120°
XZVG45WT-9	574	40	98	20	120°
XZDGK45WT-9	515	500	995	20	120°
XZM2CYK45WT-9	590	200	447	20	120°
XZM2CRK45WT-9	640	300	447	20	120°
XZMDKCBDDG45S-9	645	55	108	20	120°
	460	55	98		
	515	400	497		

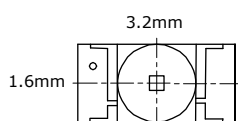


Fig.1

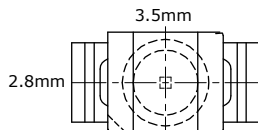


Fig.2

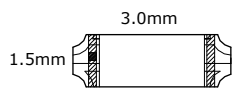


Fig.3

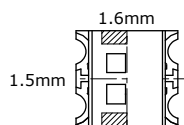
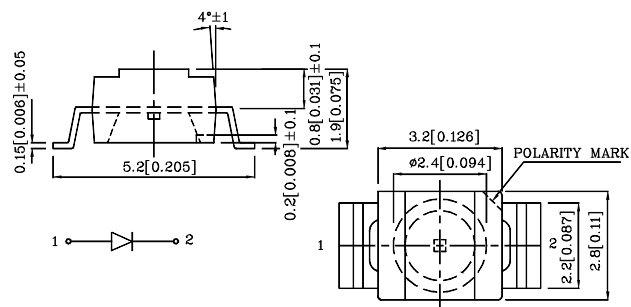


Fig.4



AI+Automation

3-Dome SMD LED

XZxx92W-3 Series



Unique
Dome Lens



3.5x3.5mm

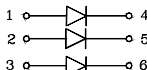
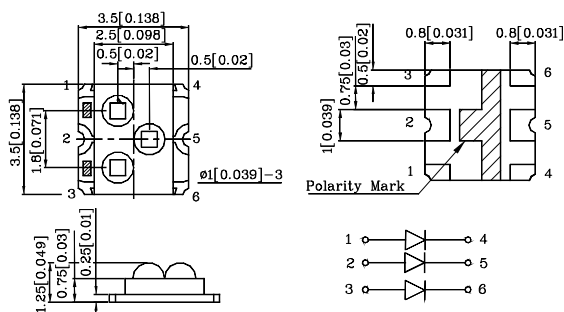


Various
Color Options



High Distance
Visibility

Part Number	λ_{Peak} (nm)	Min. (mcd)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZFBBM2ACRDG92W-3	465	300	497	20	50°
	640	1000	1590		
	520	1300	1890		
XZM2CRKCYKFB92W-3	640	1000	1295	20	50°
	590	1000	1395		
	465	400	597		
XZM2CYKCRKDG92W-3	590	1000	1590	20	50°
	640	700	1195		
	515	1000	1590		



Warehouse

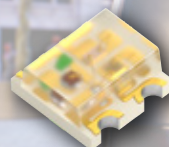
Transportation

Energy & Utility

Home Automation

Ultra-Bright RGB SMD

XZxx110W | XZxx157W | XZxx45SCCB



XZxx110W



XZxx157W



XZxx45SCCB



High Intensity



Wide Viewing
Angle



Full Color Output

Part Number	Fig	λ_{Peak} (nm)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZM2ACRM2DGFBB110W	1	640	357	20	130°
		520	745		
		465	138		
		465	148		
XZFBBM2CRKM2DGZ157W	2	640	407	20	150°
		520	775		
		465	148		
XZM2CRKM2DGFBB45SCCB	3	640	497	20	120°
		520	1590		
		465	327		

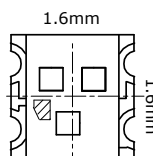


Fig.1

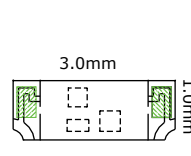


Fig.2

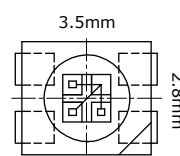
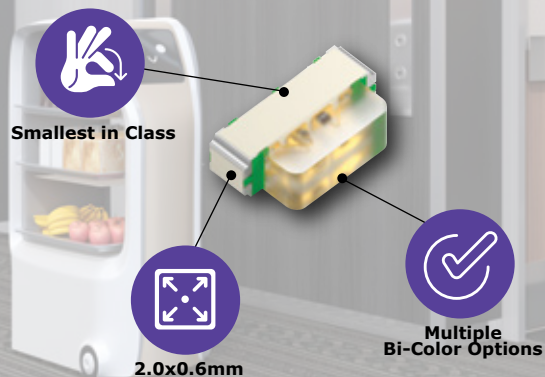


Fig.3

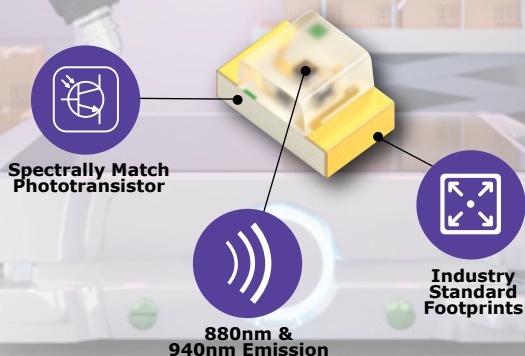
Smallest Bi-Color Rt. Angle

XZxx170W Series

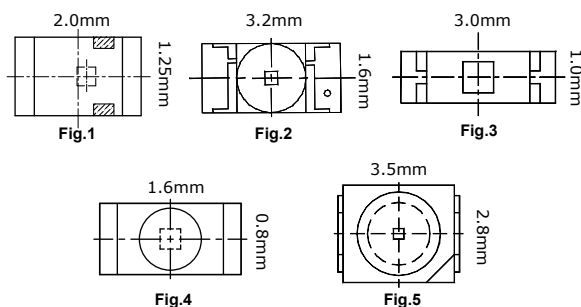
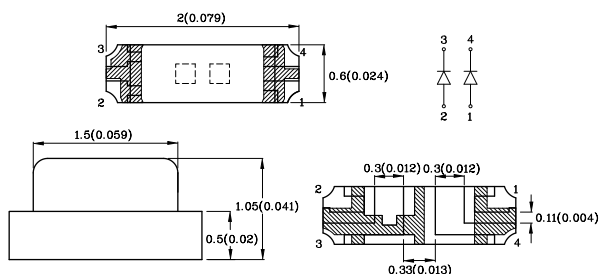


Part Number	λ_{Peak} (nm)	Min. (mcd)	Typ. (mcd)	I_F (mA)	Viewing Angle
XZMDKDGK170W	645	20	79	20	140°
	515	100	447		
XZMDKFBB170W5MA	645	6	19	5	140°
	465	20	49		
XZMDKMYK170W	645	20	79	20	140°
	590	40	98		
XZMDKVG170W	645	20	79	20	140°
	574	8	39		
XZMYKVG170W	590	40	98	20	140°
	574	8	39		

Infrared Emitters & Phototransistors



Part Number	Fig	λ_{Peak} (nm)	Typ. (mW/sr)	I_F (mA)	Viewing Angle
XZTHI54W	1	880	1.3	20	160°
XZTHI55W-3	2	880	3.8	20	40°
XZTHI56W-1	3	880	2.3	20	30°
XZTNI53W-1	3	940	1.8	20	150°
XZTNI53W-8	4	940	2.8	20	60°
XZTNI54W	1	940	1.8	20	160°
XZTNI55W-3	2	940	4.8	20	40°
XZRNI56W-1	3	/	/	/	/
XZRNI45S	5	/	/	/	/
XZRNI55W-3	2	/	/	/	/





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Infinite Design Possibilities ∞



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